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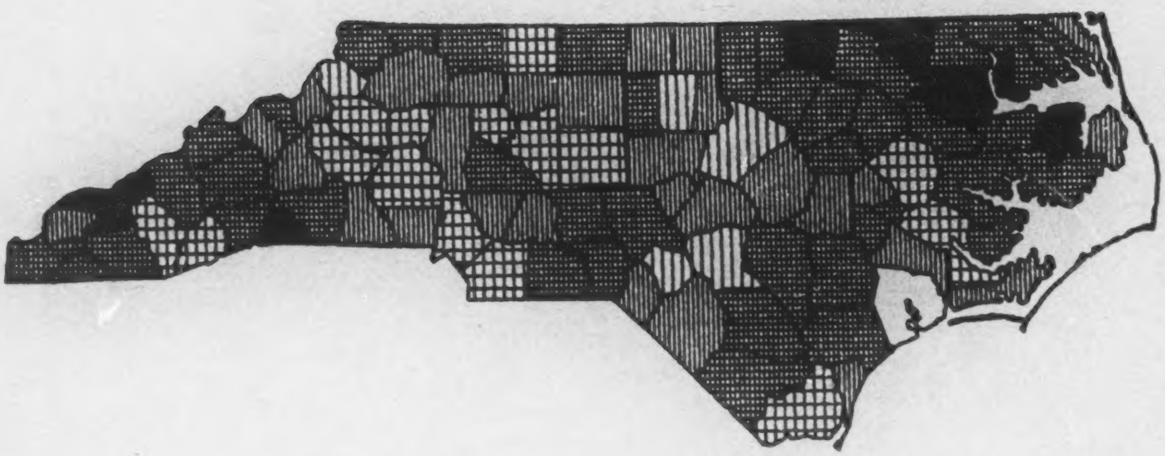
LEADING CAUSES OF MORTALITY



North Carolina
Vital Statistics
1986—Volume 2

LEADING CAUSES OF MORTALITY

North Carolina
Vital Statistics
1986—Volume 2

SCHS

State Center For Health Statistics
N.C. Department of Human Resources
Division of Health Services

STATE OF NORTH CAROLINA
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DEPARTMENT OF HUMAN RESOURCES
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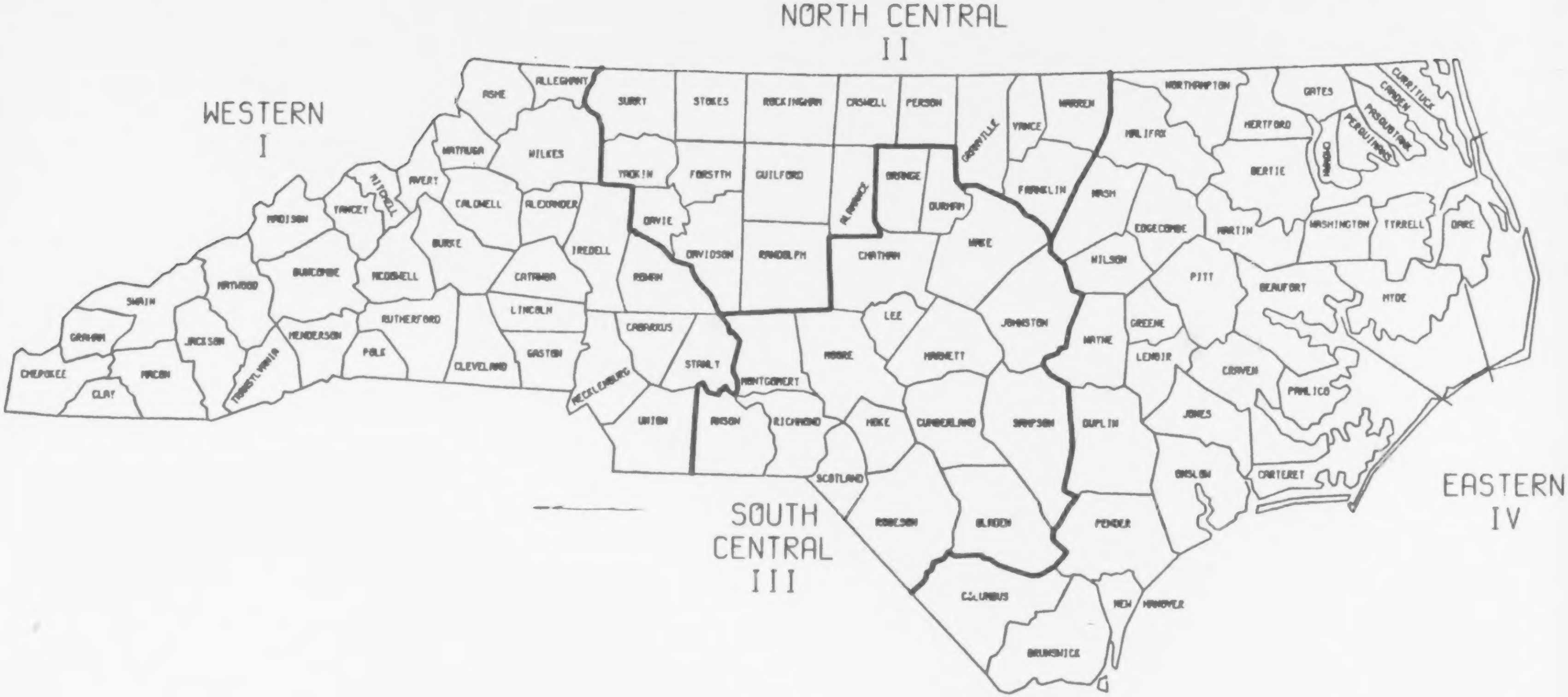
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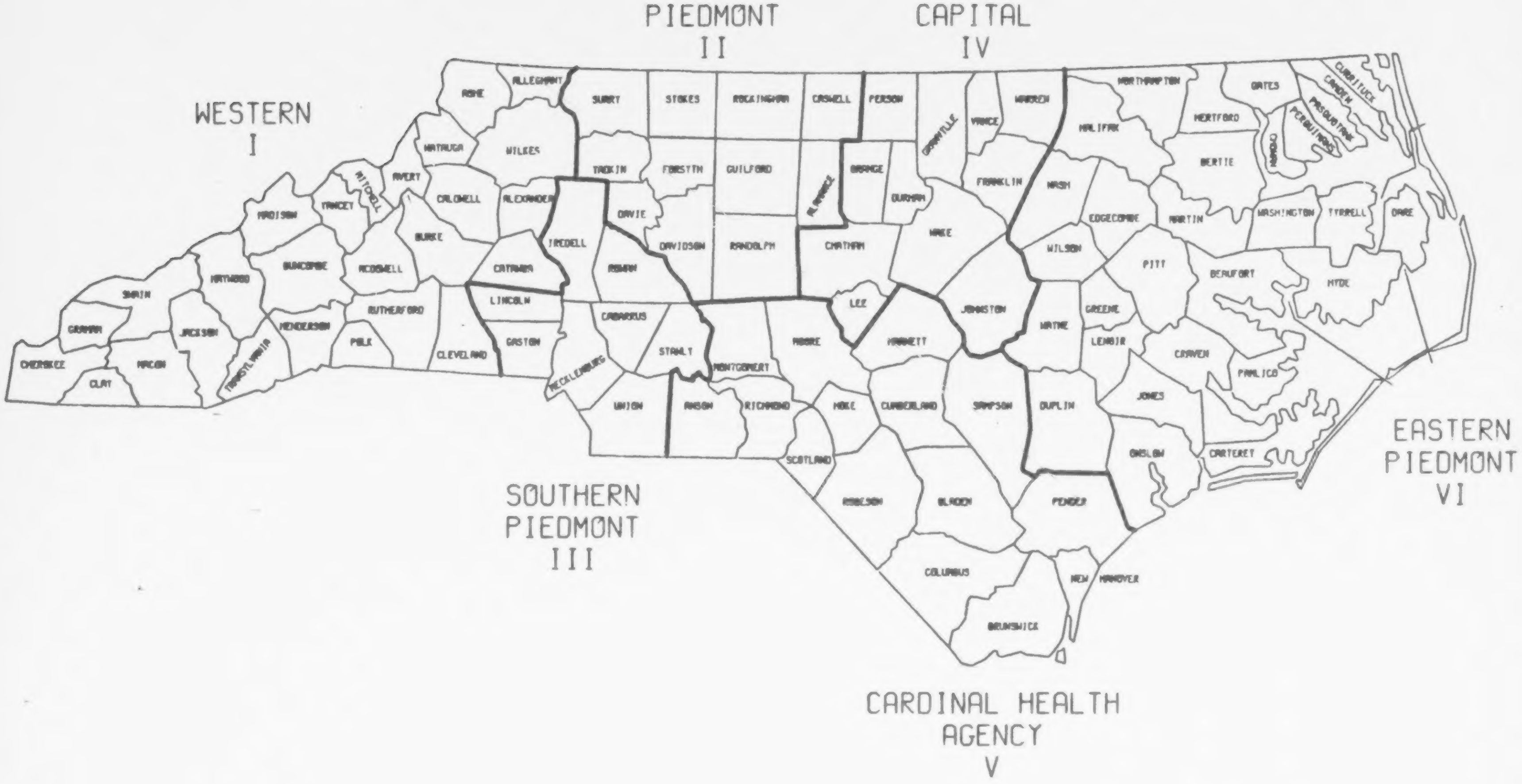
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PREFACE

The State Center for Health Statistics has produced periodically a major publication describing North Carolina's mortality experience for a five-year period. The 1981 *Leading Causes of Mortality*, the third major publication of this type, included statistical tables, maps, and graphs as well as an analysis for each leading cause of death in North Carolina. In the interim years, the State Center publishes supportive reports of mapped and tabular data only.

This edition of *Leading Causes of Mortality* is a supportive report which should be used in conjunction with the 1981 edition for purposes of health planning and analysis. Another report that can be used is *Detailed Mortality Statistics* which provides annual counts of deaths classified according to detailed underlying causes of death and the age, race, and sex of decedents.

The tables and maps in this report show selected mortality statistics for counties, Department of Human Resources regions, Health Services Areas, and the state (see maps on preceding pages). More than a dozen of North Carolina's leading causes of mortality are depicted in these tables and maps. In addition, the site-specific cancers and total infant mortality are also tabled and mapped. Table 1 on page 4-3 describes the selected cause-of-death categories in terms of codes from *International Classification of Diseases* (Ninth Revision). Altogether, the causes included in this report accounted for 85.3 percent of all North Carolina deaths during 1986.

As with previous editions, multiple conditions present at death are included in this volume. Three diseases in particular—hypertension, atherosclerosis, and diabetes—are considered associated conditions far more often than they are considered an underlying cause. Hence, Figures 29.A through 31.B display 1982-86 county rates for deaths associated with a mention of each of these diseases, and rates corresponding to these diseases as underlying causes are not mapped in this volume.

IN USING THIS VOLUME PARTICULAR ATTENTION IS CALLED TO THE SECTIONS ON *INTERPRETATION OF MORTALITY RATES AND FLAGGING BIASED RATES.*

I. COMPUTATION OF MORTALITY RATES

In this report, total death rates are expressed as resident deaths per 1,000 population while all cause-specific mortality rates are expressed as resident deaths per 100,000 population. All rates in Tables 1-27 use total population in the denominator, except rates for the sex-specific cancer sites, which use male or female population in the denominator. The infant mortality rates of Table 28 and Figure 28 are computed as the number of resident deaths under one year of age per 1,000 resident live births. Population bases for the rates of this report were provided by the Office of State Budget and Management in the Governor's Office.

Vital events in this report are allocated to place of residence. For deaths of inmates of long-term institutions (mental, penal, old age, orphan, nursing home, rest home, etc.), the institution is considered the usual residence provided the decedent had resided in the institution at least one year. College students and military personnel are considered residents of the college or military community.

The following definitions apply to the rates of Tables 1-27.

Unadjusted Annual Death Rate: the annual death rate computed as resident deaths per 1,000 or 100,000 population. These rates permit the user knowledge of an area's status with respect to the observed incidence of mortality during the given year.

Unadjusted 5-Year Death Rate: the average annual death rate computed as average resident deaths per 1,000 or 100,000 average population. These rates permit the user knowledge of an area's status with respect to the observed incidence of mortality during the 5-year period. These rates are depicted in the Series A maps (e.g., Figures 2.A, 3.A, etc.) printed in blue.

Adjusted 5-Year Death Rate: the average annual age-race-sex-adjusted rates computed by the direct method. Also expressed as deaths per 1,000 or 100,000 population, these rates are those which **would be expected** if the average annual age, race, and sex composition of each county's population were the same as that estimated for the state. These rates are free of differing effects of age, race, and sex and thus permit the user knowledge of an area's status with respect to other determinants of mortality during the 5-year period. However, the user should not compare an adjusted death rate with an unadjusted death rate. Also, adjusted rates for different time periods cannot be directly compared unless they were adjusted by the same standard population. The adjusted rates are depicted in the Series B maps (e.g., Figures 2.B., 3.B., etc.) printed in red. [Note: For the four sex-specific cancer sites (female breast, cervix, ovary, and prostate), rates are adjusted for age and race and denominators are sex-specific.]

For the maps, a clustering routine* from the Statistical Analysis System (SAS) was used to group counties that are "most like each other" with respect to their unadjusted rate and then their adjusted rate (1). These maps show six levels of death rates, where level one is the lowest rate interval and level six the highest.

*In 1983 the State Center for Health Statistics conducted an evaluation of several clustering methods. It was found that one method, called "Average Linkage Method," produced tighter clusters (i.e., clusters with smaller within-cluster variances) than the other methods examined. Consequently, we plan to use this method henceforth to cluster county rates in all SCHS publications.

II. INTERPRETATION OF MORTALITY RATES

To assess an area's relative mortality conditions during a five-year period, both the unadjusted rate and the adjusted rate can be compared to the state rate for a particular cause of death. Then, provided the area's unadjusted rate represents a relatively stable situation, viz., the rate has not fluctuated widely in recent years, the following alternative diagnoses will apply:

Relative Status Of Unadjusted Rate	Adjusted Rate	Diagnosis
Low	Low	Low mortality is not due to age, race, and sex factors; other mortality conditions are favorable.
Low	High	Low mortality is due to favorable age, race, and sex factors; other mortality conditions are unfavorable.
High	Low	High mortality is due to unfavorable age, race, and sex factors; other mortality conditions are favorable.
High	High	High mortality is not due to age, race, and sex factors; other mortality conditions are unfavorable.

In using adjusted rates, it is important that the user understand the reason for adjustment. The following hypothetical example illustrates. Here, A and B stand for population subgroups, e.g., whites and nonwhites, males and females, etc.

	County			State		
	Population	Deaths	Death Rate*	Population	Deaths	Death Rate*
Population A	300,000	1,000	333.3	500,000	2,500	500.0
Population B	10,000	10	100.0	800,000	1,000	125.0
Total	310,000	1,010	325.8	1,300,000	3,500	269.2

*Deaths per 100,000 population.

Compared to the state, county subgroups A and B both have lower rates, but the county as a whole (A and B combined) has a higher rate. This seemingly paradoxical situation results from two factors: different proportions of A and B in the county vs. the state population and wide differences between the rates for A vs. B. In this example, it is true that the county has the higher total rate—BUT ONLY BECAUSE THE POPULATION CONTAINS A HIGH PROPORTION OF SUBGROUP A.

Certainly, it is important for program planners to know that the county has a high rate relative to the state rate; this information is needed in determining manpower and facility needs, etc. But in assessing "risk," the researcher needs to adjust for confounding factors such as age or race. To do this, one multiplies each population-specific county rate by the corresponding "standard" population, sums these results, and divides by the total "standard." In the above example, using the state population as the standard, the computation is:

$$\frac{(1000/300{,}000 \times 500{,}000) + (10/10{,}000 \times 800{,}000)}{1{,}300{,}000} = 0.001897 \text{ or } 189.7 \text{ per } 100{,}000 \text{ population}$$

Thus, as rates specific for A and B imply, the county's rate is lower than the state's rate after adjustment for the factor represented by A and B.

Caution!

In assessing the relative mortality conditions of a county, one should be particularly aware of rates based on small numbers of deaths since, in such cases, random fluctuation in the rate may render rate comparisons risky. The reader should read very carefully the next section entitled "Flagging Biased Rates."

III. FLAGGING BIASED RATES

The age-race-sex adjusted rates in this publication that have been determined to be biased are flagged with an asterisk to suggest caution in their use. A complete description of the rationale and method for flagging biased rates can be found in the 1981 *Leading Causes of Mortality*. A short summary is provided below.

Any rate with a small number of events (deaths) in the numerator will have substantial random variability over time, or a large standard error. A useful rule of thumb is that any rate based on fewer than 20 events in the numerator may involve serious random error and should be used very cautiously in making comparisons or assessing trends (2). Many of the rates in this volume do have numerators smaller than 20.

In addition to the problem of a large standard error, the age-race-sex-adjusted rates in this volume may be biased due to one or more deaths in a small age-race-sex population group. One death out of an estimated population of 5, for example, would produce a death rate of 20,000 per 100,000 population. If this rate were applied to the appropriate age-race-sex group of the standard population, a very large number of expected deaths would result and the adjusted rate would be biased. In this volume an adjusted rate is flagged if: a) applying the age-race-sex-specific rates of a county for a given cause to the standard population results in more than 25 percent of the total expected deaths being generated by one cell, and b) the denominator of the rate is also less than 50 (an average of 10 per year). These criteria will catch only the worst problems. Only twenty-seven out of a total of 2500 county adjusted rates in this volume are flagged by this method.

In addition to putting asterisks by those 1982-86 adjusted rates with a large bias due to an extremely high age-race-sex-specific rate, the rates have been recomputed by substituting the appropriate North Carolina age-race-sex-cause-specific rate in the problem cell. The table on the next page compares the flagged rates with the rates where the state rate has been substituted. The reader who must use one of these flagged rates is advised to use the rate in this table with the substitution instead. If the latter rate is clearly out of line with the North Carolina rate in the last column, the rate should be treated as missing data.

1982-86 Age-Race-Sex Adjusted Death Rates: Flagged Rates and Rate after Substitution of State Rate in Problem Cell

County	Cause	Problem Cell	Numerator	Denominator	Flagged Rate	Adjusted Rate With Substitution	N.C. Rate For Cause
Alexander	Hypertension	NWF 85+	1	46	7.21	4.63	4.00
Alleghany	Stroke	NWM 75-84	2	19	78.84	56.92	73.79
Alleghany	Stomach Cancer	NWM 75-84	1	19	14.77	2.84	4.76
Alleghany	Lung Cancer	NWM 55-64	1	40	68.44	51.76	47.74
Ashe	Colon Cancer	NWM 75-84	1	29	17.18	9.64	18.81
Avery	Other Ischemic Heart Disease	NWF 85+	1	10	92.36	56.20	83.53
Avery	Stroke	NWM 75-84	1	15	45.46	32.48	73.79
Avery	Colon Cancer	NWF 65-74	1	22	44.16	9.35	18.81
Avery	Pancreatic Cancer	NWM 75-84	1	15	18.69	3.46	9.26
Avery	Chronic Lung Disease	NWM 75-84	1	15	46.93	32.10	25.42
Avery	Non-Motor-Vehicle Accidents	NWM 85+	1	0	76.87	17.26	23.25
Clay	Total Cancer	NWM 65-74	1	10	207.03	159.80	174.85
Graham	Stroke	NWM 65-74	1	36	47.87	35.14	73.79
Haywood	Leukemia	NWF 85+	1	34	8.27	4.66	6.50
Macon	Other Ischemic Heart Disease	NWF 75-84	3	48	78.25	56.57	83.53
Madison	Other Ischemic Heart Disease	NWF 75-84	2	34	76.15	55.88	83.53
Madison	Stroke	NWF 65-74	1	35	76.10	56.32	73.79
Madison	Pancreatic Cancer	NWM 65-74	1	26	27.96	7.21	9.26
Madison	Diabetes	NWM 75-84	1	7	47.86	15.19	14.01
Madison	Chronic Lung Disease	NWM 65-74	1	26	37.26	17.02	25.42
Mitchell	Pancreatic Cancer	NWM 75-84	1	20	18.80	7.44	9.26
Swain	Atherosclerosis	NWM 85+	1	20	11.77	8.99	8.80
Swain	Stomach Cancer	NWM 85+	1	20	7.99	5.07	4.76
Watauga	Atherosclerosis	NWM 85+	1	6	14.32	4.57	8.80
Watauga	Chronic Lung Disease	NWM 75-84	1	28	20.12	12.46	25.42
Yancey	Stroke	NWF 85+	1	5	64.94	42.16	73.79
Yancey	Non-Motor-Vehicle Accidents	NWF 65-74	1	35	47.31	25.23	23.25

IV. NORTH CAROLINA MORTALITY HIGHLIGHTS

In the 1981 *Leading Causes of Mortality* extensive analyses of North Carolina's mortality experience were presented. That volume contained statistical tables, maps, and graphs as well as cause-specific discussions of trends, geographic patterns, risk factors, and recent research. We do not expect that the general mortality picture has changed very much in five years. Thus in this section, we will highlight 1986 unadjusted death rates for selected causes and recent changes in the rates. The reader should consult the 1981 volume for a detailed discussion of each cause.

- As shown in Table 1, a total of 54,584 North Carolinians died in 1986 for a rate of 8.62 deaths per 1,000 population. The 1986 crude death rate was 1.8 percent above the 1985 rate and 4.2 percent above the 1984 rate.

- The median age at death rose from 72.1 to 72.3 years, consistent with a generally steady increase in the median during the last 25 years.

- The ten leading causes of death in 1986 were heart disease, cancer, cerebrovascular disease, accidents, chronic obstructive pulmonary disease, pneumonia and influenza, diabetes, suicide, chronic liver disease/cirrhosis and homicide. These causes accounted for 82.8% of total deaths in 1986.

- Of the 14 major categories of mortality presented in Table 1, hypertension displayed the highest percentage change in rates between 1985 and 1986 with an increase of 15 percent. Other increases included motor vehicle accidents, up 11 percent; chronic liver disease and cirrhosis, up 10 percent; diabetes, up 8 percent; and chronic obstructive pulmonary disease, also up 8 percent. The only other substantial change was a 13 percent drop in the nephritis/nephrosis rate.

- Overall, the heart disease mortality rate registered a slight increase of less than one-half of 1 percent between 1985 and 1986. Mortality rates from myocardial infarction and other ischemic heart disease also changed only slightly during the last year.

- Overall, cancer mortality has increased steadily over the last six years with an increase of 2.5 percent between 1985 and 1986. Among the nine site-specific cancers presented in this volume, those showing the greatest percentage change in rates between 1985 and 1986 were stomach cancer (+16%), prostate cancer (+13%), and cancer of the cervix (-17%). Female breast cancer displayed a decline of 2.8 percent following steady increases between 1981 and 1985.

- Annual homicide death rate declines of 12 percent in 1983 and 8 percent in 1984 have been replaced by two annual increases of 6 percent in 1985 and 2 percent in 1986.

- The suicide death rate declined for the second consecutive year, from a rate of 12.63 in 1985 to 12.17 in 1986 for a percentage change of 4 percent. The 1984-85 decline was 5 percent, from a rate of 13.30 to 12.63.

- The North Carolina infant mortality rate declined from 12.0 to 11.6 deaths per 1,000 live births, the sixth consecutive decline in the decade. The white rate declined by 2 percent while the nonwhite rate declined by 5 percent. The neonatal mortality rate declined by 4 percent between 1985 and 1986 from a rate of 8.0 per 1,000 live births to 7.7. The white neonatal rate increased by 2 percent and the nonwhite rate declined by 10 percent in the period. Conversely, the white postneonatal mortality rate declined by 9 percent while the nonwhite postneonatal mortality rate increased by 5 percent.

TABLE 1

MORTALITY STATISTICS FOR 1986 AND 1982-86

NORTH CAROLINA RESIDENTS

Cause of Death - Ninth Revision International Classification of Diseases		Number of deaths 1986	Death Rate* 1986	Death Rate* 1982-86
All Causes		54,584	8.62	8.34
Diseases of Heart	(390-398,402,404-429)	19,377	306.05	304.62
Acute Myocardial Infarction	(410)	7,612	120.22	127.36
Other Forms of Ischemic Heart Disease	(411-414)	5,626	88.86	83.53
Hypertension with or without Renal Disease	(401,403)	268	4.23	4.00
Cerebrovascular Disease	(430-438)	4,484	70.82	73.79
Atherosclerosis	(440)	560	8.84	8.80
Cancer	(140-208)	11,584	182.96	174.85
Stomach	(151)	328	5.18	4.76
Colon, Rectum, and Anus	(153,154)	1,283	20.26	18.81
Pancreas	(157)	606	9.57	9.26
Trachea, Bronchus, and Lung	(162)	3,206	50.63	47.74
Female Breast	(174)	1,037	31.52	29.48
Cervix Uteri	(180)	137	4.16	4.75
Ovary and other Uterine Adnexa	(183)	281	8.54	8.35
Prostate	(185)	766	25.17	22.54
Leukemia	(204-208)	423	6.68	6.50
Diabetes Mellitus	(250)	947	14.95	14.01
Pneumonia and Influenza	(480-487)	1,800	28.43	24.56
Chronic Obstructive Pulmonary Disease and Allied Conditions	(490-496)	1,825	28.82	25.42
Chronic Liver Disease and Cirrhosis	(571)	632	9.98	9.58
Nephritis, Nephrotic Syndrome, and Nephrosis	(580-589)	543	8.57	8.94
Motor Vehicle Accidents	(810-825)	1,700	26.85	23.78
All Other Accidents and Adverse Effects	(800-807, 826-949)	1,477	23.32	23.25
Suicide	(950-959)	771	12.17	12.73
Homicide	(960-978)	585	9.23	9.28

*See Section I.

V. TABLES AND FIGURES: MORTALITY STATISTICS FOR 1982-86

TABLE 2

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

TOTAL DEATHS (PER 1000 POPULATION)

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	54584	8.62	257357	8.34	8.34
REGIONS					
DHR I WESTERN	19207	8.86	89419	8.46	8.10
DHR II N. CENTRAL	12083	9.06	56332	8.62	8.24
DHR III S. CENTRAL	11339	7.62	54240	7.54	8.54
DHR IV EASTERN	11955	8.89	57366	8.74	8.85
HSA I WESTERN	10114	9.37	47471	8.95	8.02
HSA II PIEDMONT	10422	8.86	48771	8.45	8.24
HSA III S. PIEDMONT	9093	8.36	41948	7.96	8.18
HSA IV CAPITAL	7097	7.63	33776	7.64	8.20
HSA V CARDINAL	8040	8.41	38184	8.15	8.90
HSA VI EASTERN	9818	8.88	47207	8.72	8.88
COUNTIES					
1 ALAMANCE	993	9.61	4713	9.27	8.20
2 ALEXANDER	202	7.53	928	7.03	7.81
3 ALLEGHANY	105	10.80	490	10.00	7.62
4 ANSON	279	10.59	1351	10.35	8.65
5 ASHE	234	10.06	1127	9.72	8.45
6 AVERY	125	8.31	627	8.39	10.26
7 BEAUFORT	472	10.87	2208	10.34	9.13
8 BERTIE	244	11.48	1187	11.12	9.33
9 BLADEN	307	9.95	1448	9.42	9.04
10 BRUNSWICK	382	7.99	1746	8.05	7.90
11 BUNCOMBE	1744	10.25	8392	10.07	8.26
12 BURKE	640	8.42	2950	7.88	8.23
13 CABARRUS	854	9.19	4029	8.83	8.30
14 CALDWELL	573	8.16	2593	7.52	8.26
15 CAMDEN	61	10.40	276	9.49	8.68
16 CARTERET	454	9.00	2125	9.01	8.72
17 CASWELL	182	8.09	900	8.19	7.73
18 CATAWBA	930	8.14	4405	7.93	8.41
19 CHATHAM	323	8.96	1574	8.97	7.94
20 CHEROKEE	218	10.70	954	9.58	7.38
21 CHOWAN	183	13.66	769	11.86	8.98
22 CLAY	74	10.26	371	10.53	7.16
23 CLEVELAND	806	9.34	3807	8.97	8.58
24 COLUMBUS	561	10.72	2587	9.96	9.54
25 CRAVEN	567	7.06	2629	6.83	8.58
26 CUMBERLAND	1445	5.66	6848	5.40	9.45
27 CURRITUCK	114	8.52	575	9.07	8.80
28 DARE	140	7.48	678	8.20	7.63
29 DAVIDSON	961	8.06	4564	7.81	8.18
30 DAVIE	235	8.27	1042	7.59	7.97
31 DUPLIN	416	9.97	2103	10.13	9.06
32 DURHAM	1385	8.35	6773	8.45	8.40
33 EDGECOMBE	591	10.00	2782	9.62	9.20
34 FORSYTH	2331	8.93	10761	8.43	8.15
35 FRANKLIN	333	9.74	1522	9.47	7.81
36 GASTON	1624	9.45	7158	8.47	8.84
37 GATES	106	11.09	505	10.88	8.37
38 GRAHAM	66	9.20	307	8.60	8.16
39 GRANVILLE	403	10.69	1766	9.71	8.77
40 GREENE	120	7.23	713	8.67	9.14
41 GUILFORD	2814	8.53	13584	8.36	8.25

* SEE SECTION I

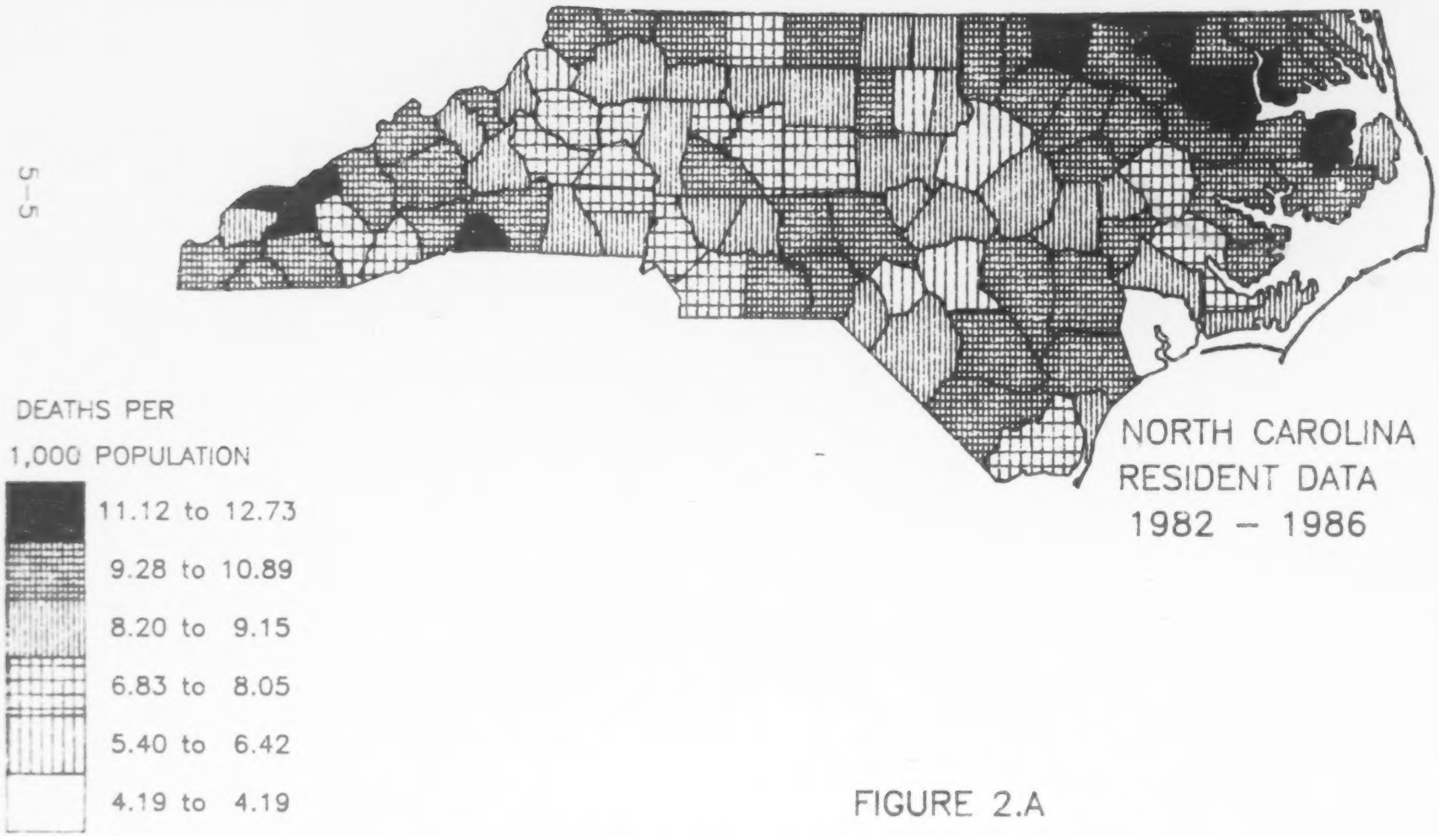
MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
TOTAL DEATHS (PER 1000 POPULATION) CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	594	10.60	3001	10.75	8.84
43 HARNETT	644	10.06	2858	9.15	9.69
44 HAYWOOD	487	10.04	2358	9.91	7.84
45 HENDERSON	695	10.33	3324	10.27	7.40
46 HERTFORD	288	11.97	1227	10.28	8.26
47 HOKE	135	5.83	720	6.42	7.79
48 HYDE	80	13.53	314	10.57	8.50
49 IREDELL	821	9.28	3840	8.89	8.30
50 JACKSON	220	8.27	1042	7.75	7.54
51 JOHNSTON	729	9.32	3430	9.13	8.95
52 JONES	87	8.86	433	8.84	7.77
53 LEE	355	8.57	1777	9.01	9.18
54 LENOIR	593	9.84	2926	9.69	9.27
55 LINCOLN	341	7.36	1683	7.54	8.04
56 MCDOWELL	365	10.07	1530	8.45	7.84
57 MACON	240	10.39	1157	10.25	7.73
58 MADISON	157	9.04	808	9.39	7.34
59 MARTIN	278	10.40	1315	9.90	8.82
60 MECKLENBURG	3315	7.31	15406	7.09	7.97
61 MITCHELL	158	10.86	771	10.71	6.48
62 MONTGOMERY	225	9.43	1111	9.45	8.40
63 MOORE	591	10.55	2839	10.53	8.22
64 NASH	674	9.46	3329	9.49	9.29
65 NEW HANOVER	945	8.24	4666	8.43	8.74
66 NORTHAMPTON	259	11.51	1261	11.23	8.92
67 ONSLOW	539	4.30	2515	4.19	8.34
68 ORANGE	507	5.98	2344	5.76	7.44
69 PAMLICO	116	10.49	549	10.13	8.20
70 PASQUOTANK	316	10.58	1375	9.46	8.41
71 PENDER	249	9.88	1160	9.70	8.75
72 PERQUIMANS	109	10.34	485	9.69	6.76
73 PERSON	294	9.59	1317	8.73	7.91
74 PITT	763	7.83	3765	7.89	9.13
75 POLK	181	12.49	895	12.62	7.59
76 RANDOLPH	761	7.68	3645	7.58	8.19
77 RICHMOND	497	10.75	2260	9.88	8.97
78 ROBESON	967	9.11	4600	8.74	9.44
79 ROCKINGHAM	938	10.96	4059	9.53	8.95
80 ROWAN	1089	10.41	4977	9.71	8.03
81 RUTHERFORD	615	10.81	2734	9.74	8.17
82 SAMPSON	511	10.15	2541	10.12	9.04
83 SCOTLAND	302	8.95	1449	8.64	9.70
84 STANLY	478	9.50	2233	9.01	8.04
85 STOKES	287	8.05	1344	7.67	8.27
86 SURRY	599	9.73	2825	9.31	8.28
87 SWAIN	128	11.70	681	12.72	9.93
88 TRANSYLVANIA	224	8.57	1002	7.98	7.02
89 TYRRELL	49	11.98	235	11.33	9.74
90 UNION	571	7.15	2622	6.85	7.94
91 VANCE	425	10.97	1974	10.42	9.16
92 WAKE	2137	5.83	10317	6.07	7.92
93 WARREN	206	12.52	982	11.98	8.65
94 WASHINGTON	152	10.45	693	9.56	9.68
95 WATAUGA	219	6.35	1029	6.06	6.92
96 WAYNE	834	8.56	4139	8.44	9.44
97 WILKES	560	9.22	2502	8.29	8.41
98 WILSON	619	9.58	3095	9.63	9.63
99 YADKIN	321	10.82	1334	9.08	7.84
100 YANCEY	148	9.34	687	8.89	7.44

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

GENERAL MORTALITY


DEATHS PER
1,000 POPULATION
11.12 to 12.73
9.28 to 10.89
8.20 to 9.15
6.83 to 8.05
5.40 to 6.42
4.19 to 4.19

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 2.A

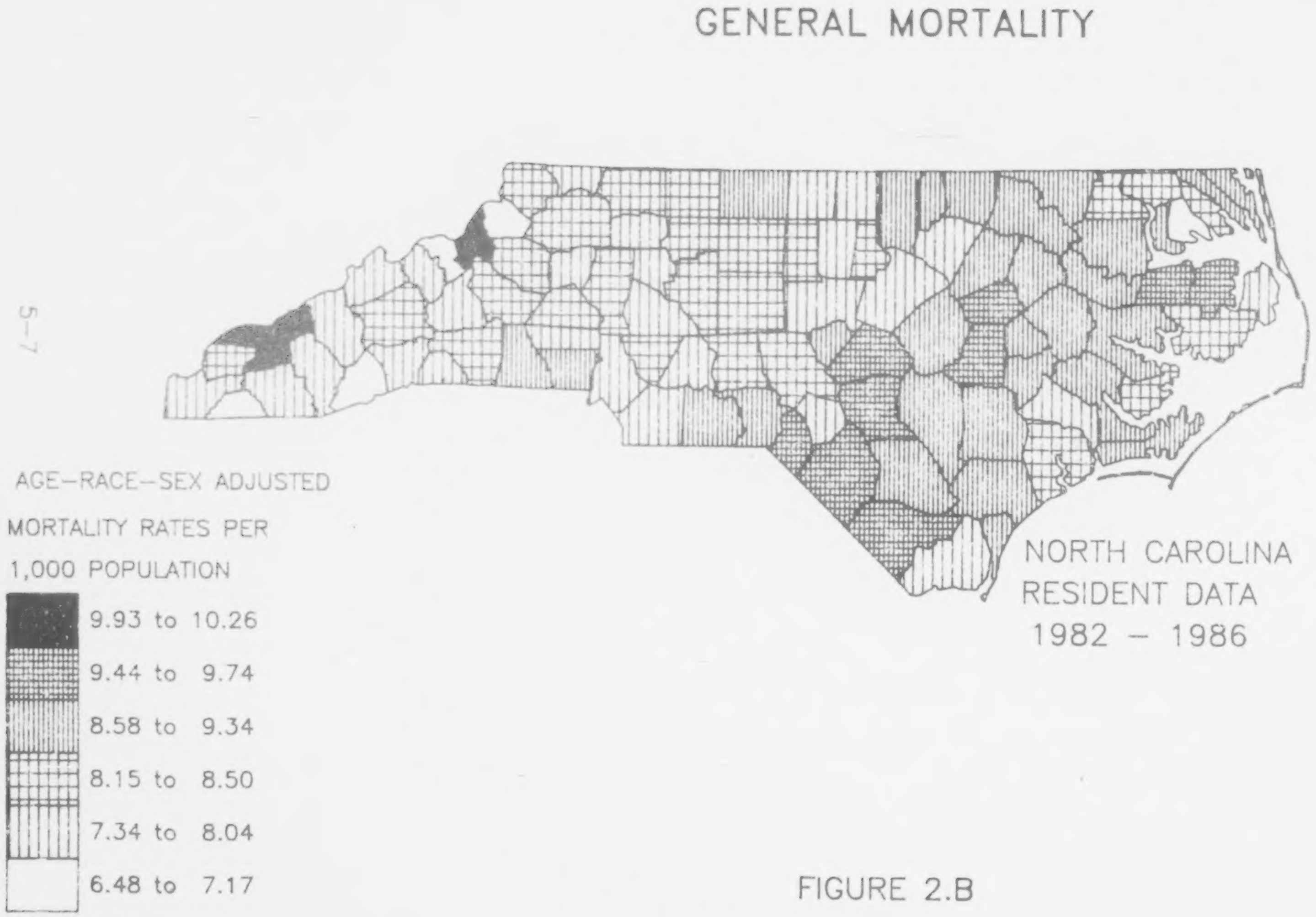

GENERAL MORTALITY
AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
1,000 POPULATION
9.93 to 10.26
9.44 to 9.74
8.58 to 9.34
8.15 to 8.50
7.34 to 8.04
6.48 to 7.17
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 2.B

TABLE 3

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

DISEASES OF HEART

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	19377	306.05	93977	304.62	304.62
REGIONS					
DHR I WESTERN	7012	323.71	33551	317.52	295.99
DHR II N. CENTRAL	4272	320.47	20705	316.86	299.71
DHR III S. CENTRAL	3897	261.95	19036	264.76	309.82
DHR IV EASTERN	4196	312.08	20685	315.36	327.44
HSA I WESTERN	3749	347.44	18259	344.57	291.74
HSA II PIEDMONT	3674	312.59	17825	308.92	297.65
HSA III S. PIEDMONT	3263	300.16	15292	290.31	297.29
HSA IV CAPITAL	2419	260.13	11904	269.44	295.31
HSA V CARDINAL	2793	292.33	13688	292.16	329.37
HSA VI EASTERN	3479	314.96	17009	314.37	329.76
COUNTIES					
1 ALAMANCE	355	343.89	1734	341.24	293.59
2 ALEXANDER	75	279.70	356	269.85	287.65
3 ALLEGHANY	32	329.15	158	322.58	223.86
4 ANSON	114	433.06	521	399.50	324.82
5 ASHE	84	361.27	466	402.01	258.12
6 AVERY	49	326.05	264	353.54	443.81
7 BEAUFORT	172	396.34	817	382.94	337.70
8 BERTIE	84	395.27	438	410.44	349.97
9 BLADEN	96	311.42	549	357.26	352.67
10 BRUNSWICK	123	257.33	640	295.08	288.84
11 BUNCOMBE	618	363.52	3001	360.45	277.34
12 BURKE	264	347.41	1218	325.54	332.90
13 CABARRUS	287	309.12	1463	320.92	293.63
14 CALDWELL	217	309.35	975	282.92	306.41
15 CAMDEN	22	375.36	96	330.39	288.79
16 CARTERET	192	380.84	861	365.13	351.61
17 CASWELL	67	297.92	324	295.18	282.73
18 CATAWBA	379	332.03	1737	312.92	322.13
19 CHATHAM	119	330.41	580	330.59	291.40
20 CHEROKEE	96	471.44	401	402.76	271.29
21 CHOWAN	64	478.07	259	399.61	299.12
22 CLAY	29	402.21	156	442.79	251.42
23 CLEVELAND	310	359.56	1549	365.30	342.78
24 COLUMBUS	204	390.11	1031	397.22	379.58
25 CRAVEN	188	234.38	882	229.15	304.45
26 CUMBERLAND	495	194.16	2228	175.75	355.89
27 CURRITUCK	50	374.08	223	352.02	342.82
28 DARE	57	304.73	246	297.74	274.96
29 DAVIDSON	343	288.00	1725	295.24	305.81
30 DAVIE	96	337.84	399	290.66	303.07
31 DUPLIN	137	328.65	784	377.90	345.47
32 DURHAM	436	262.90	2287	285.40	288.64
33 EDGECOMBE	202	341.96	948	328.05	327.75
34 FORSYTH	800	306.68	3927	307.81	295.54
35 FRANKLIN	128	374.56	609	378.99	309.94
36 GASTON	659	383.62	2925	346.37	360.51
37 GATES	34	355.76	185	398.65	296.24
38 GRAHAM	22	306.70	116	325.03	327.13
39 GRANVILLE	134	355.47	653	359.33	336.87
40 GREENE	44	265.28	272	330.93	375.26
41 GUILFORD	939	284.66	4758	293.08	288.05

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
DISEASES OF HEART CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	229	408.70	1130	404.95	343.85
43 HARNETT	229	357.76	1081	346.16	370.88
44 HAYWOOD	186	383.75	961	404.19	301.26
45 HENDERSON	233	346.61	1226	379.01	243.51
46 HERTFORD	100	415.86	451	378.19	305.42
47 HOKE	47	203.15	253	225.66	287.35
48 HYDE	31	524.62	114	383.81	303.47
49 IREDELL	292	330.20	1393	322.63	294.33
50 JACKSON	79	297.24	395	293.85	269.83
51 JOHNSTON	280	358.09	1340	356.76	347.82
52 JONES	26	264.92	141	287.89	249.65
53 LEE	141	340.51	657	333.29	340.87
54 LENOIR	197	327.13	1079	357.56	346.42
55 LINCOLN	139	300.35	614	275.36	284.37
56 MCDOWELL	139	383.76	620	342.59	299.35
57 MACON	93	402.85	455	403.21	311.05
58 MADISON	55	316.83	288	334.93	233.35
59 MARTIN	113	422.92	489	368.49	340.39
60 MECKLENBURG	1097	242.10	5171	238.27	273.98
61 MITCHELL	54	371.36	268	372.28	213.38
62 MONTGOMERY	74	310.24	398	338.84	294.89
63 MOORE	201	358.87	1017	377.37	282.06
64 NASH	243	341.09	1223	348.64	348.14
65 NEW HANOVER	309	269.50	1604	290.12	302.14
66 NORTHAMPTON	97	431.16	439	391.18	308.24
67 ONSLOW	141	112.67	710	118.38	275.12
68 ORANGE	136	160.51	737	181.34	240.34
69 PAMLICO	46	416.17	199	367.49	290.63
70 PASQUOTANK	138	462.15	551	379.13	332.62
71 PENDER	81	321.44	401	335.60	306.03
72 PERQUIMANS	40	379.72	177	353.75	240.62
73 PERSON	113	368.70	550	364.98	328.54
74 PITT	251	257.68	1317	276.33	338.51
75 POLK	58	400.38	326	459.84	248.26
76 RANDOLPH	301	303.82	1362	283.56	296.42
77 RICHMOND	170	367.75	819	358.15	322.80
78 ROBESON	348	328.01	1640	311.82	343.07
79 ROCKINGHAM	339	396.41	1526	358.36	333.45
80 ROWAN	385	368.33	1805	352.47	280.66
81 RUTHERFORD	233	409.63	1097	390.83	314.14
82 SAMPSON	189	375.58	959	382.30	340.86
83 SCOTLAND	113	334.96	547	326.17	383.87
84 STANLY	181	360.01	908	366.55	314.24
85 STOKES	97	272.39	490	279.83	310.18
86 SURRY	211	342.83	1081	356.32	292.98
87 SWAIN	48	438.83	278	519.58	371.50
88 TRANSYLVANIA	67	256.39	344	274.07	239.51
89 TYRRELL	16	391.38	98	472.53	391.52
90 UNION	223	279.33	1013	264.94	310.11
91 VANCE	140	361.38	720	380.07	339.57
92 WAKE	709	193.71	3423	201.63	273.30
93 WARREN	83	504.49	348	424.89	318.72
94 WASHINGTON	45	309.46	244	336.90	345.17
95 WATAUGA	83	240.72	414	244.07	275.36
96 WAYNE	314	322.34	1595	325.42	381.02
97 WILKES	207	340.86	987	327.21	326.82
98 WILSON	206	319.06	1041	324.18	332.17
99 YADKIN	126	425.05	499	339.99	273.62
100 YANCEY	39	246.16	203	262.78	193.53

* SEE SECTION I

DISEASES OF THE HEART

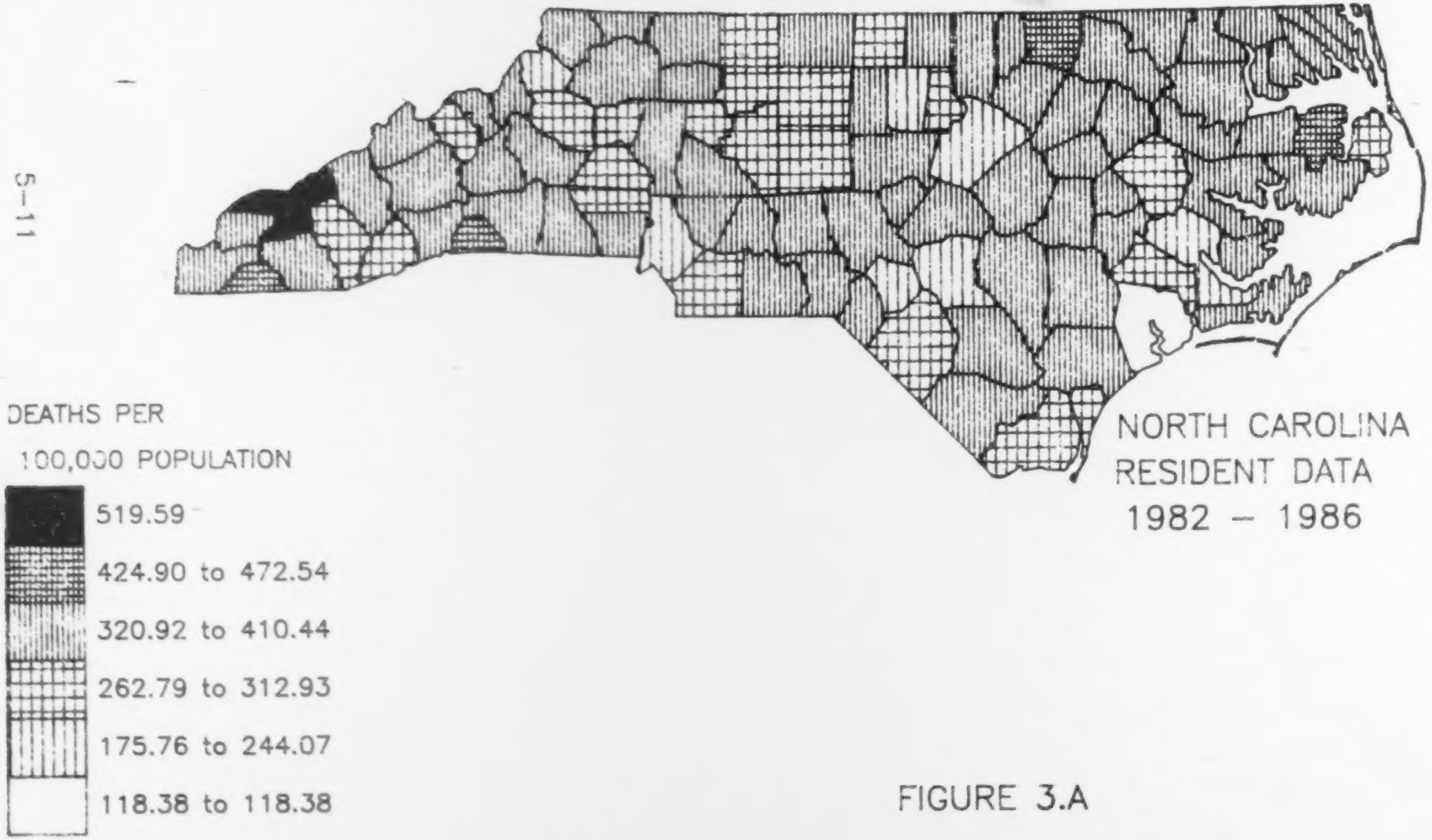
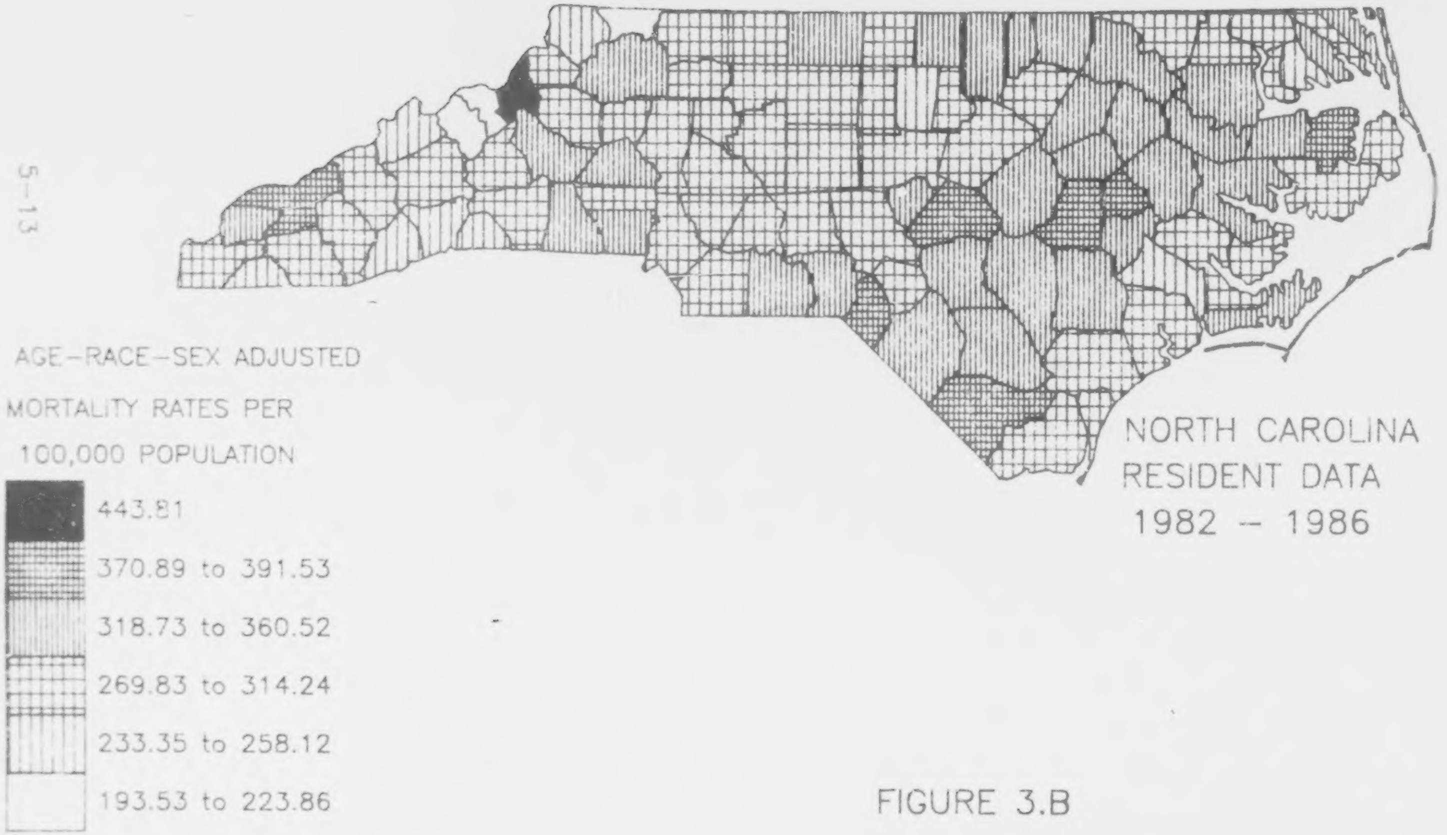

DEATHS PER
100,000 POPULATION
519.59
424.90 to 472.54
320.92 to 410.44
262.79 to 312.93
175.76 to 244.07
118.38 to 118.38
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 3.A

DISEASES OF THE HEART


AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
■ 443.81
▦ 370.89 to 391.53
▥ 318.73 to 360.52
▦ 269.83 to 314.24
▥ 233.35 to 258.12
□ 193.53 to 223.86

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 3.B

TABLE 4

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

ACUTE MYOCARDIAL INFARCTION

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	7612	120.22	39291	127.36	127.36
REGIONS					
DHR I WESTERN	2826	130.46	14458	136.83	124.25
DHR II N. CENTRAL	1753	131.50	8986	137.51	129.84
DHR III S. CENTRAL	1419	95.38	7555	105.07	124.46
DHR IV EASTERN	1614	120.04	8292	126.41	133.48
HSA I WESTERN	1504	139.38	7912	149.31	124.37
HSA II PIEDMONT	1510	128.47	7758	134.45	127.99
HSA III S. PIEDMONT	1322	121.61	6546	124.27	124.72
HSA IV CAPITAL	826	88.82	4396	99.50	110.73
HSA V CARDINAL	1088	113.87	5868	125.24	141.96
HSA VI EASTERN	1362	123.30	6811	125.88	135.10
COUNTIES					
1 ALAMANCE	150	145.30	746	146.81	124.64
2 ALEXANDER	37	137.98	182	137.95	144.84
3 ALLEGHANY	16	164.57	79	161.29	127.29
4 ANSON	59	224.13	285	218.53	179.60
5 ASHE	31	133.32	188	162.18	97.62
6 AVERY	22	146.39	137	183.46	220.81
7 BEAUFORT	48	110.60	271	127.02	116.12
8 BERTIE	46	216.46	242	226.77	192.64
9 BLADEN	41	133.00	277	180.25	183.03
10 BRUNSWICK	42	87.87	254	117.11	109.74
11 BUNCOMBE	211	124.11	1123	134.88	104.55
12 BURKE	121	159.23	597	159.56	160.40
13 CABARRUS	152	163.71	771	169.12	154.78
14 CALDWELL	100	142.55	461	133.77	138.67
15 CAMDEN	6	102.37	26	89.48	78.76
16 CARTERET	87	172.57	341	144.61	135.33
17 CASWELL	30	133.39	142	129.37	131.90
18 CATAWBA	164	143.67	863	155.47	155.78
19 CHATHAM	56	155.49	268	152.75	138.41
20 CHEROKEE	42	206.25	191	191.83	128.95
21 CHOWAN	28	209.15	114	175.89	135.47
22 CLAY	8	110.95	80	227.07	129.12
23 CLEVELAND	121	140.34	637	150.22	141.31
24 COLUMBUS	89	170.19	405	156.04	152.32
25 CRAVEN	64	79.78	322	83.66	109.55
26 CUMBERLAND	153	60.01	876	69.10	137.92
27 CURRITUCK	15	112.22	76	119.97	110.03
28 DARE	14	74.84	93	112.56	93.37
29 DAVIDSON	164	137.70	786	134.52	133.52
30 DAVIE	44	154.84	202	147.15	149.30
31 DUPLIN	71	170.32	374	180.27	168.46
32 DURHAM	138	83.21	782	97.58	104.09
33 EDGECOMBE	86	145.58	400	138.41	147.88
34 FORSYTH	268	102.73	1566	122.74	119.28
35 FRANKLIN	61	178.50	286	177.98	147.52
36 GASTON	225	130.97	1256	148.73	148.27
37 GATES	9	94.17	65	140.06	106.54
38 GRAHAM	7	97.58	47	131.69	123.80
39 GRANVILLE	54	143.25	268	147.47	138.81
40 GREENE	26	156.75	115	139.91	163.36
41 GUILFORD	370	112.16	1938	119.37	117.80

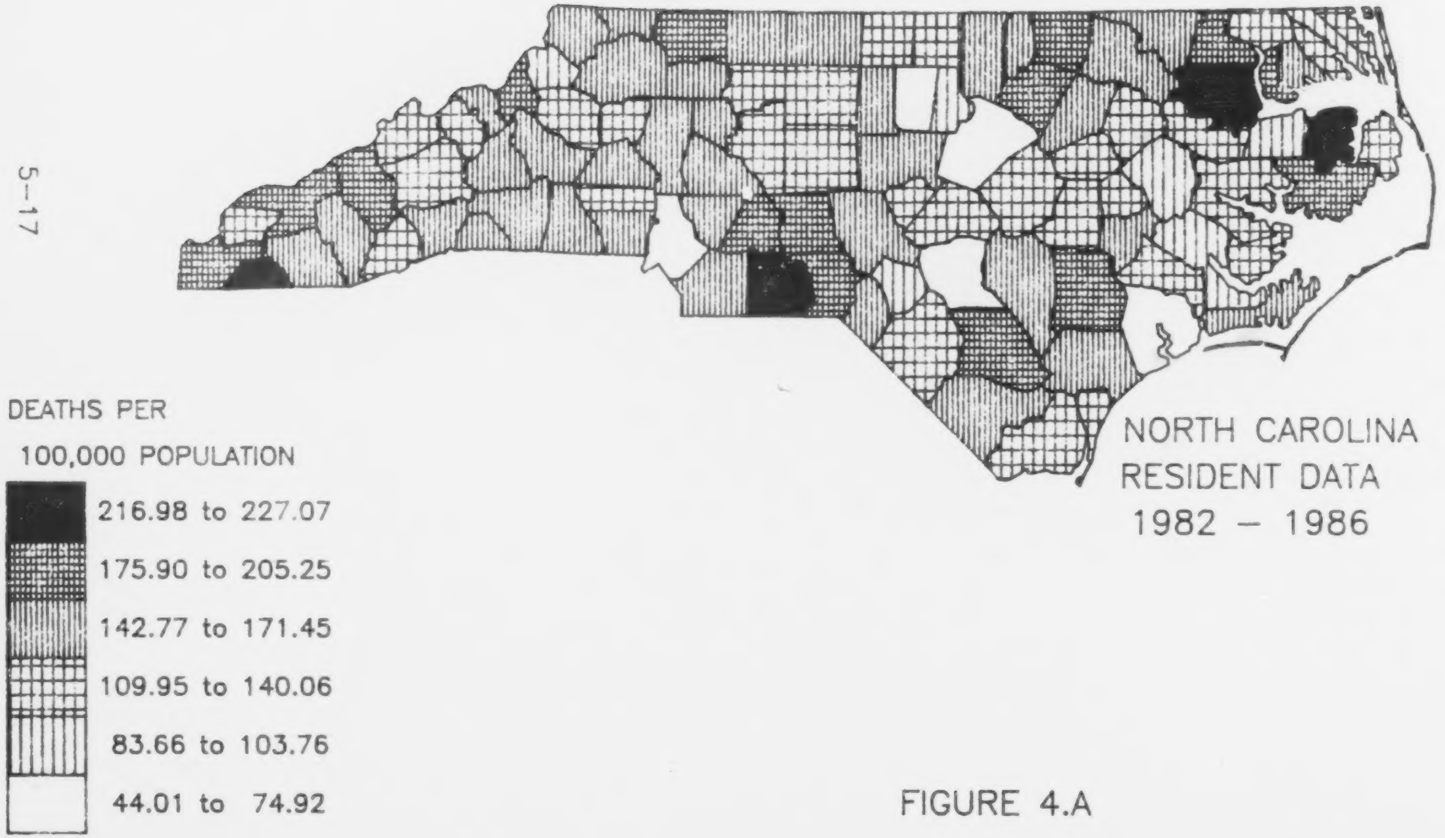
* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
ACUTE MYOCARDIAL INFARCTION CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	97	173.12	475	170.22	159.79
43 HARNETT	67	104.67	369	118.16	126.84
44 HAYWOOD	98	202.19	488	205.25	161.48
45 HENDERSON	83	123.47	473	146.22	88.78
46 HERTFORD	47	195.45	212	177.77	139.64
47 HOKE	15	64.83	106	94.54	131.71
48 HYDE	16	270.77	57	191.90	163.49
49 IREDELL	144	162.84	674	156.10	140.17
50 JACKSON	34	127.93	196	145.81	136.60
51 JOHNSTON	77	98.47	422	112.35	106.66
52 JONES	13	132.46	59	120.46	106.44
53 LEE	43	103.84	247	125.30	128.02
54 LENOIR	66	109.59	435	144.15	143.91
55 LINCOLN	64	138.29	292	130.95	129.06
56 MCDOWELL	56	154.61	268	148.08	124.82
57 MACON	25	108.29	184	163.05	104.13
58 MADISON	18	103.69	117	136.06	85.13
59 MARTIN	49	183.39	184	138.65	135.54
60 MECKLENBURG	346	76.36	1626	74.92	87.31
61 MITCHELL	21	144.41	108	150.02	87.73
62 MONTGOMERY	46	192.85	222	189.00	164.97
63 MOORE	88	157.11	423	156.96	117.80
64 NASH	106	148.79	531	151.37	152.88
65 NEW HANOVER	81	70.64	631	114.13	117.90
66 NORTHAMPTON	28	124.46	167	148.80	135.11
67 ONSLOW	46	36.76	264	44.01	99.87
68 ORANGE	30	35.40	240	59.05	79.24
69 PAMLICO	18	162.85	68	125.57	101.98
70 PASQUOTANK	37	123.91	200	137.61	122.10
71 PENDER	40	158.73	191	159.85	140.79
72 PERQUIMANS	18	170.87	74	147.89	104.79
73 PERSON	36	117.46	197	130.73	119.67
74 PITT	87	89.31	469	98.40	128.52
75 POLK	22	151.87	119	167.85	91.81
76 RANDOLPH	120	121.12	659	137.20	138.04
77 RICHMOND	90	194.69	425	185.85	165.79
78 ROBESON	134	126.30	712	135.37	154.18
79 ROCKINGHAM	158	184.76	700	164.39	151.26
80 ROWAN	182	174.12	878	171.45	136.15
81 RUTHERFORD	92	161.74	430	153.19	120.33
82 SAMPSON	91	180.83	420	167.43	151.58
83 SCOTLAND	52	154.14	272	162.19	187.17
84 STANLY	96	190.94	491	198.21	170.12
85 STOKES	53	148.83	250	142.77	154.21
86 SURRY	100	162.48	534	176.02	138.81
87 SWAIN	16	146.27	102	190.63	141.23
88 TRANSYLVANIA	23	88.01	138	109.94	86.36
89 TYRRELL	7	171.23	45	216.98	179.12
90 UNION	113	141.54	558	145.94	169.91
91 VANCE	53	136.80	314	165.75	145.38
92 WAKE	239	65.29	1209	71.21	96.30
93 WARREN	39	237.05	163	199.01	156.43
94 WASHINGTON	13	89.40	64	88.36	90.53
95 WATAUGA	35	101.51	176	103.76	119.85
96 WAYNE	117	120.11	622	126.90	152.20
97 WILKES	87	143.26	433	143.55	139.20
98 WILSON	97	150.23	446	138.89	148.85
99 YADKIN	53	178.79	235	160.11	129.17
100 YANCEY	14	88.36	95	122.97	74.69

* SEE SECTION I

ACUTE MYOCARDIAL INFARCTION



DEATHS PER
100,000 POPULATION
216.98 to 227.07
175.90 to 205.25
142.77 to 171.45
109.95 to 140.06
83.66 to 103.76
44.01 to 74.92

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 4.A

ACUTE MYOCARDIAL INFARCTION

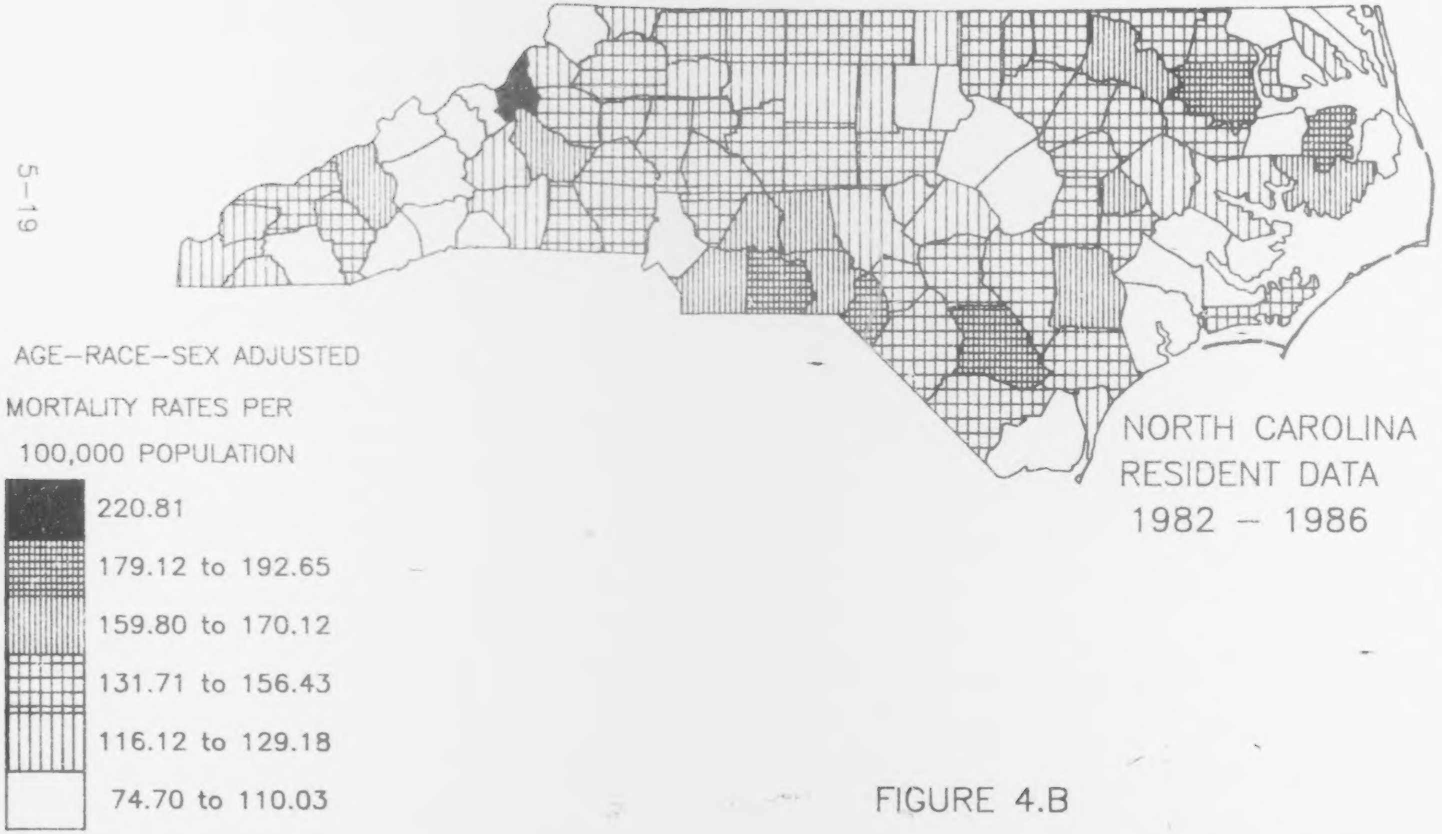

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
220.81
179.12 to 192.65
159.80 to 170.12
131.71 to 156.43
116.12 to 129.18
74.70 to 110.03
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 4.B

TABLE 5

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

OTHER FORMS OF ISCHEMIC HEART DISEASE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	5626	88.86	25770	83.53	83.53
REGIONS					
DHR I WESTERN	1992	91.96	9047	85.62	79.73
DHR II N. CENTRAL	1305	97.89	5761	88.16	83.07
DHR III S. CENTRAL	1137	76.42	5414	75.30	90.11
DHR IV EASTERN	1192	88.65	5548	84.58	88.94
HSA I WESTERN	1023	94.80	4726	89.18	73.89
HSA II PIEDMONT	1176	100.05	5239	90.79	87.09
HSA III S. PIEDMONT	969	89.13	4321	82.03	84.26
HSA IV CAPITAL	679	73.01	3211	72.68	80.81
HSA V CARDINAL	837	87.60	3756	80.17	92.99
HSA VI EASTERN	942	85.28	4517	83.48	88.83
COUNTIES					
1 ALAMANCE	127	123.02	598	117.68	101.85
2 ALEXANDER	24	89.50	94	71.25	76.58
3 ALLEGHANY	7	72.00	35	71.45	39.80
4 ANSON	26	98.76	105	80.51	67.99
5 ASHE	19	81.71	122	105.24	60.53
6 AVERY	12	79.85	48	64.28	92.36 *
7 BEAUFORT	46	106.00	233	109.21	98.06
8 BERTIE	20	94.11	62	58.09	62.94
9 BLADEN	21	68.12	127	82.64	80.30
10 BRUNSWICK	41	85.77	187	86.22	85.27
11 BUNCOMBE	239	140.58	1022	122.75	90.31
12 BURKE	72	94.74	315	84.19	86.56
13 CABARRUS	52	56.00	255	55.93	50.39
14 CALDWELL	62	88.38	267	77.47	84.74
15 CAMDEN	10	170.61	35	120.45	97.47
16 CARTERET	44	87.27	179	75.90	70.16
17 CASWELL	13	57.80	78	71.06	70.37
18 CATAWBA	76	66.58	348	62.69	66.31
19 CHATHAM	27	74.96	146	83.21	71.50
20 CHEROKEE	18	88.39	65	65.28	42.33
21 CHOWAN	5	37.34	47	72.51	52.47
22 CLAY	6	83.21	27	76.63	44.35
23 CLEVELAND	53	61.47	264	62.25	58.03
24 COLUMBUS	63	120.47	300	115.58	105.96
25 CRAVEN	49	61.08	235	61.05	84.73
26 CUMBERLAND	155	60.79	601	47.40	108.34
27 CURRITUCK	20	149.63	83	131.02	130.13
28 DARE	20	106.92	61	73.83	70.47
29 DAVIDSON	83	69.69	432	73.93	74.18
30 DAVIE	35	123.17	120	87.41	90.43
31 DUPLIN	36	86.36	192	92.54	86.17
32 DURHAM	123	74.16	649	80.99	83.95
33 EDGECOMBE	48	81.25	259	89.62	90.51
34 FORSYTH	289	110.79	1186	92.96	88.97
35 FRANKLIN	29	84.86	112	69.70	59.26
36 GASTON	269	156.59	928	109.89	116.74
37 GATES	9	94.17	41	88.35	75.68
38 GRAHAM	2	27.88	18	50.43	32.36
39 GRANVILLE	35	92.84	160	88.04	86.08
40 GREENE	8	48.23	82	99.76	118.94
41 GUILFORD	294	89.12	1471	90.61	89.19

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
OTHER FORMS OF ISCHEMIC HEART DISEASE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	58	103.51	328	117.54	93.31
43 HARNETT	77	120.29	375	120.08	129.16
44 HAYWOOD	45	92.84	246	103.46	75.91
45 HENDERSON	79	117.52	401	123.96	73.36
46 HERTFORD	17	70.69	88	73.79	68.08
47 HOKE	16	69.15	64	57.08	75.01
48 HYDE	4	67.69	14	47.13	34.35
49 IREDELL	66	74.63	376	87.08	78.61
50 JACKSON	15	56.43	89	66.21	55.89
51 JOHNSTON	85	108.70	461	122.73	119.86
52 JONES	4	40.75	41	83.71	75.64
53 LEE	44	106.25	178	90.29	92.90
54 LENOIR	61	101.29	286	94.77	96.76
55 LINCOLN	35	75.62	146	65.47	65.21
56 MCDOWELL	42	115.95	199	109.96	98.55
57 MACON	27	116.95	126	111.65	78.25 *
58 MADISON	18	103.69	77	89.54	76.15 *
59 MARTIN	26	97.30	121	91.18	85.27
60 MECKLENBURG	362	79.89	1775	81.78	94.08
61 MITCHELL	11	75.64	54	75.01	41.81
62 MONTGOMERY	15	62.88	94	80.02	69.34
63 MOORE	54	96.41	270	100.18	73.85
64 NASH	59	82.81	288	82.10	83.51
65 NEW HANOVER	122	106.40	444	80.30	84.77
66 NORTHAMPTON	30	133.35	116	103.36	82.38
67 ONSLOW	59	47.14	260	43.35	99.26
68 ORANGE	46	54.29	210	51.67	68.98
69 PAMLICO	16	144.75	69	127.42	98.99
70 PASQUOTANK	58	194.23	175	120.41	109.63
71 PENDER	24	95.24	100	83.69	82.24
72 PERQUIMANS	13	123.40	48	95.93	67.06
73 PERSON	22	71.78	74	49.10	45.48
74 PITT	71	72.89	353	74.06	90.03
75 POLK	28	193.29	121	170.67	92.06
76 RANDOLPH	111	112.04	423	88.06	91.29
77 RICHMOND	39	84.36	200	87.46	80.37
78 ROBESON	116	109.33	511	97.15	115.04
79 ROCKINGHAM	88	102.90	384	90.18	83.99
80 ROWAN	99	94.71	431	84.16	65.28
81 RUTHERFORD	58	101.96	275	97.97	78.78
82 SAMPSON	45	89.42	283	112.81	102.39
83 SCOTLAND	23	68.17	95	56.64	74.06
84 STANLY	45	89.50	242	97.69	81.46
85 STOKES	22	61.78	132	75.38	79.26
86 SURRY	73	118.61	297	97.89	78.77
87 SWAIN	9	82.28	45	84.10	61.41
88 TRANSYLVANIA	18	68.88	83	66.12	60.01
89 TYRRELL	7	171.23	23	110.90	109.09
90 UNION	41	51.35	168	43.93	51.70
91 VANCE	26	67.11	113	59.65	54.82
92 WAKE	225	61.47	1045	61.55	85.13
93 WARREN	17	103.33	63	76.92	54.22
94 WASHINGTON	9	61.89	69	95.27	98.15
95 WATAUGA	14	40.60	84	49.52	59.25
96 WAYNE	90	92.39	478	97.52	110.61
97 WILKES	63	103.74	267	88.51	92.66
98 WILSON	45	69.69	251	78.16	80.57
99 YADKIN	41	138.31	118	80.40	61.62
100 YANCEY	6	37.87	34	44.01	25.89

* SEE SECTION 1

OTHER ISCHEMIC HEART DISEASE

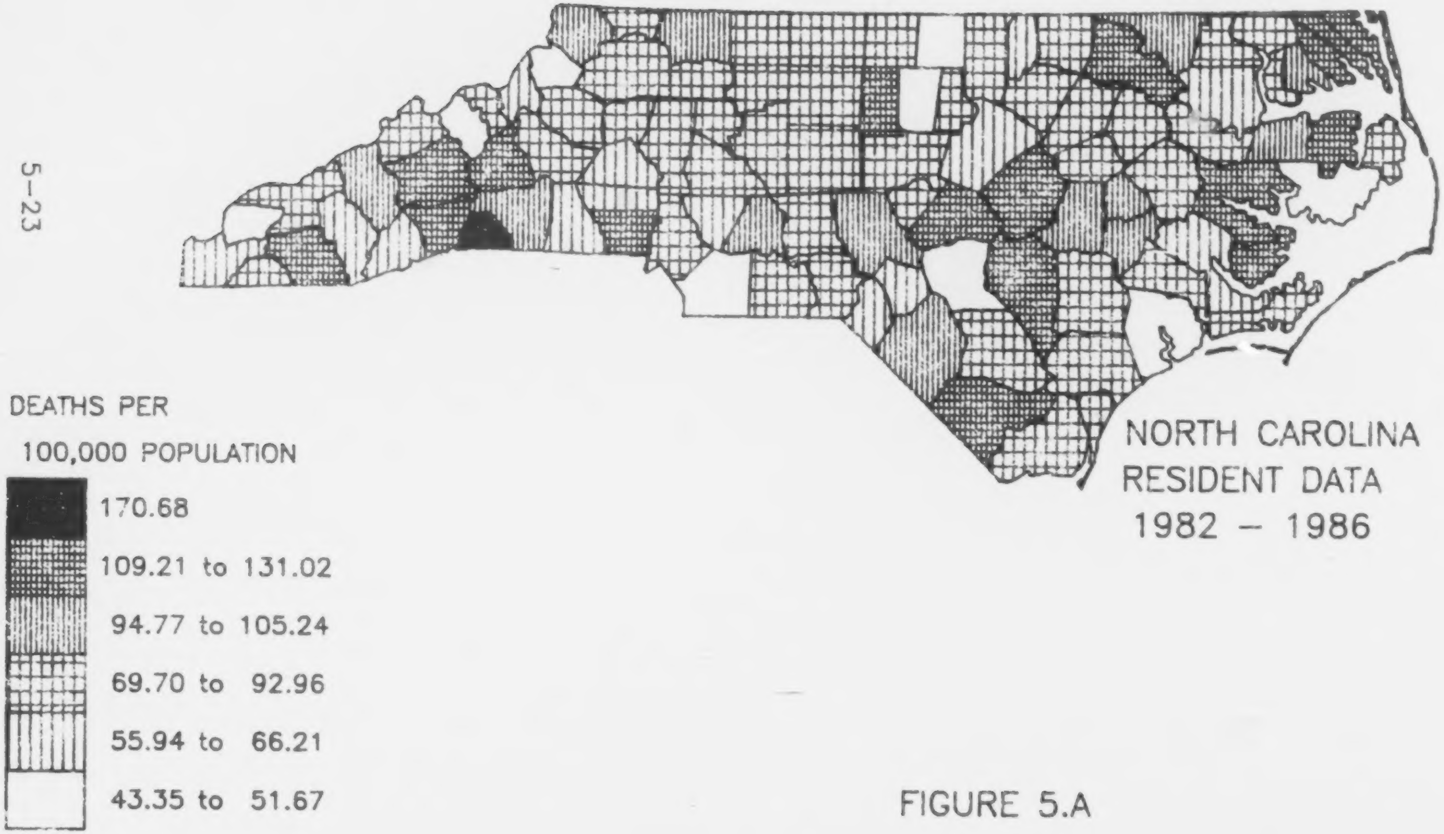
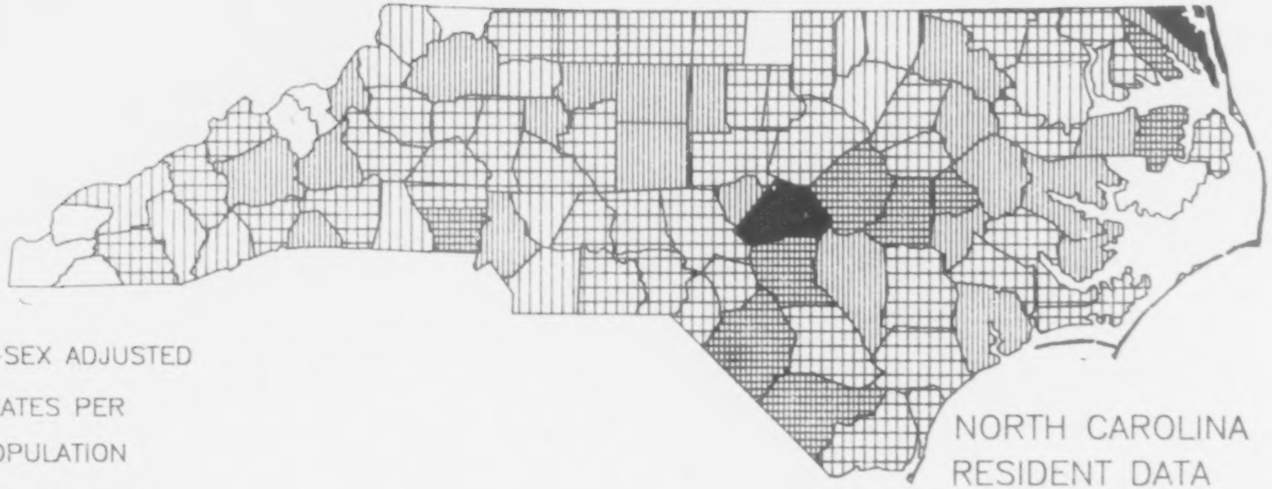

DEATHS PER
100,000 POPULATION
170.68
109.21 to 131.02
94.77 to 105.24
69.70 to 92.96
55.94 to 66.21
43.35 to 51.67
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 5.A

OTHER ISCHEMIC HEART DISEASE



NORTH CAROLINA
RESIDENT DATA
1982 - 1986

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

■	129.16 to 130.13
▦	105.97 to 119.86
▥	89.00 to 102.40
⊞	65.21 to 86.56
▥	50.40 to 62.95
☐	25.89 to 45.49

FIGURE 5.B

TABLE 6

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

HYPERTENSION WITH OR WITHOUT RENAL DISEASE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	268	4.23	1236	4.00	4.00
REGIONS					
DHR I WESTERN	88	4.06	385	3.64	4.04
DHR II N. CENTRAL	52	3.90	270	4.13	4.01
DHR III S. CENTRAL	69	4.63	300	4.17	4.45
DHR IV EASTERN	59	4.38	281	4.28	3.71
HSA I WESTERN	49	4.54	192	3.62	3.66
HSA II PIEDMONT	42	3.57	227	3.93	4.06
HSA III S. PIEDMONT	39	3.58	193	3.66	4.12
HSA IV CAPITAL	44	4.73	177	4.00	4.01
HSA V CARDINAL	45	4.70	206	4.39	4.42
HSA VI EASTERN	49	4.43	241	4.45	3.79
COUNTIES					
1 ALAMANCE	6	5.81	23	4.52	4.00
2 ALEXANDER	1	3.72	7	5.30	7.21*
3 ALLEGHANY	0	0.00	0	0.00	0.00
4 ANSON	0	0.00	5	3.83	2.08
5 ASHE	0	0.00	4	3.45	2.07
6 AVERY	0	0.00	1	1.33	1.07
7 BEAUFORT	1	2.30	9	4.21	2.90
8 BERTIE	2	9.41	7	6.55	3.92
9 BLADEN	3	9.73	8	5.20	3.60
10 BRUNSWICK	1	2.09	4	1.84	1.75
11 BUNCOMBE	10	5.88	45	5.40	4.65
12 BURKE	4	5.26	11	2.94	2.63
13 CABARRUS	6	6.46	22	4.82	5.01
14 CALDWELL	7	9.97	14	4.06	4.42
15 CAMDEN	0	0.00	0	0.00	0.00
16 CARTERET	0	0.00	6	2.54	4.39
17 CASWELL	0	0.00	5	4.55	2.94
18 CATAWBA	4	3.50	16	2.88	3.99
19 CHATHAM	2	5.55	7	3.98	3.39
20 CHEROKEE	0	0.00	1	1.00	0.65
21 CHOWAN	0	0.00	8	12.34	11.32
22 CLAY	1	13.86	2	5.67	2.99
23 CLEVELAND	2	2.31	13	3.06	2.69
24 COLUMBUS	2	3.82	9	3.46	2.72
25 CRAVEN	4	4.98	13	3.37	3.73
26 CUMBERLAND	10	3.92	45	3.54	6.18
27 CURRITUCK	0	0.00	1	1.57	1.55
28 DARE	1	5.34	2	2.42	2.11
29 DAVIDSON	2	1.67	15	2.56	2.78
30 DAVIE	0	0.00	4	2.91	2.82
31 DUPLIN	2	4.79	8	3.85	2.30
32 DURHAM	16	9.64	41	5.11	4.39
33 EDGECOMBE	5	8.46	17	5.88	3.58
34 FORSYTH	12	4.60	76	5.95	5.56
35 FRANKLIN	1	2.92	6	3.73	2.82
36 GASTON	2	1.16	19	2.24	2.79
37 GATES	0	0.00	3	6.46	3.99
38 GRAHAM	0	0.00	0	0.00	0.00
39 GRANVILLE	3	7.95	6	3.30	2.39
40 GREENE	0	0.00	4	4.86	3.21
41 GUILFORD	11	3.33	54	3.32	3.33

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
HYPERTENSION WITH OR WITHOUT RENAL DISEASE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	5	8.92	16	5.73	3.76
43 HARNETT	5	7.81	15	4.80	4.96
44 HAYWOOD	1	2.06	13	5.46	6.78
45 HENDERSON	4	5.95	17	5.25	7.21
46 HERTFORD	2	8.31	5	4.19	1.47
47 HOKE	1	4.32	5	4.45	3.63
48 HYDE	0	0.00	2	6.73	3.73
49 IREDELL	6	6.78	18	4.16	4.75
50 JACKSON	1	3.76	2	1.48	1.25
51 JOHNSTON	6	7.67	21	5.59	5.58
52 JONES	1	10.18	3	6.12	5.32
53 LEE	3	7.24	13	6.59	6.70
54 LENOIR	4	6.64	18	5.96	4.85
55 LINCOLN	1	2.16	3	1.34	2.95
56 MCDOWELL	2	5.52	9	4.97	4.84
57 MACON	2	8.66	8	7.08	3.44
58 MADISON	1	5.76	3	3.48	1.94
59 MARTIN	1	3.74	8	6.02	4.64
60 MECKLENBURG	16	3.53	88	4.05	4.46
61 MITCHELL	0	0.00	0	0.00	0.00
62 MONTGOMERY	2	8.38	13	11.06	9.86
63 MOORE	4	7.14	18	6.67	5.23
64 NASH	1	1.40	6	1.71	1.77
65 NEW HANOVER	5	4.36	17	3.07	3.15
66 NORTHAMPTON	0	0.00	2	1.78	1.48
67 ONSLOW	3	2.39	16	2.66	6.74
68 ORANGE	2	2.36	14	3.44	4.25
69 PAMLICO	0	0.00	0	0.00	0.00
70 PASQUOTANK	1	3.34	4	2.75	2.10
71 PENDER	2	7.93	10	8.36	5.74
72 PERQUIMANS	1	9.49	9	17.98	8.65
73 PERSON	1	3.26	6	3.98	3.15
74 PITT	8	8.21	24	5.03	4.77
75 POLK	0	0.00	3	4.23	1.58
76 RANDOLPH	2	2.01	10	2.08	2.83
77 RICHMOND	2	4.32	9	3.93	3.38
78 ROBESON	6	5.65	29	5.51	4.97
79 ROCKINGHAM	4	4.67	19	4.46	4.35
80 ROWAN	2	1.91	24	4.68	4.21
81 RUTHERFORD	6	10.54	13	4.63	5.07
82 SAMPSON	1	1.98	11	4.38	3.39
83 SCOTLAND	1	2.96	8	4.77	4.88
84 STANLY	4	7.95	8	3.22	3.85
85 STOKES	0	0.00	6	3.42	4.44
86 SURRY	3	4.87	12	3.95	3.65
87 SWAIN	0	0.00	1	1.86	1.85
88 TRANSYLVANIA	2	7.65	2	1.59	0.97
89 TYRRELL	0	0.00	0	0.00	0.00
90 UNION	2	2.50	11	2.87	3.33
91 VANCE	4	10.32	18	9.50	6.20
92 WAKE	5	1.36	38	2.23	2.99
93 WARREN	1	6.07	7	8.54	2.16
94 WASHINGTON	2	13.75	8	11.04	9.74
95 WATAUGA	0	0.00	3	1.76	1.55
96 WAYNE	2	2.05	26	5.30	4.37
97 WILKES	0	0.00	2	0.66	0.58
98 WILSON	3	4.64	16	4.98	3.92
99 YADKIN	2	6.74	3	2.04	1.47
100 YANCEY	1	6.31	2	2.58	1.51

* SEE SECTION I

TABLE 7

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CEREBROVASCULAR DISEASE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	4484	70.82	22766	73.79	73.79
REGIONS					
DHR I WESTERN	1523	70.31	7569	71.63	68.91
DHR II N. CENTRAL	1000	75.01	5066	77.52	73.22
DHR III S. CENTRAL	928	62.37	4784	66.53	76.87
DHR IV EASTERN	1033	76.83	5347	81.52	81.59
HSA I WESTERN	765	70.89	3822	72.12	64.77
HSA II PIEDMONT	875	74.44	4427	76.72	73.99
HSA III S. PIEDMONT	758	69.72	3747	71.13	74.14
HSA IV CAPITAL	555	59.68	2740	62.01	66.41
HSA V CARDINAL	674	70.54	3691	78.78	87.77
HSA VI EASTERN	857	77.58	4339	80.19	79.97
COUNTIES					
1 ALAMANCE	76	73.62	411	80.88	71.15
2 ALEXANDER	4	14.91	60	45.48	48.48
3 ALLEGHANY	11	113.14	46	93.91	78.84*
4 ANSON	23	87.37	142	108.88	81.81
5 ASHE	21	90.31	76	65.56	57.90
6 AVERY	7	46.57	28	37.49	45.46*
7 BEAUFORT	49	112.91	222	104.05	89.73
8 BERTIE	29	136.46	104	97.45	74.28
9 BLADEN	28	90.83	163	106.07	101.81
10 BRUNSWICK	21	43.93	134	61.78	62.13
11 BUNCOMBE	154	90.58	766	92.00	73.39
12 BURKE	39	51.32	204	54.52	59.08
13 CABARRUS	78	84.01	398	87.30	83.73
14 CALDWELL	45	64.15	179	51.94	55.82
15 CAMDEN	3	51.18	26	89.48	82.20
16 CARTERET	32	63.47	137	58.09	62.82
17 CASWELL	18	80.03	99	90.19	87.73
18 CATAWBA	49	42.92	325	58.54	65.49
19 CHATHAM	31	86.07	154	87.77	74.02
20 CHEROKEE	19	93.30	79	79.34	61.18
21 CHOWAN	28	209.15	86	132.68	88.77
22 CLAY	2	27.73	17	48.25	29.77
23 CLEVELAND	49	56.83	299	70.51	68.08
24 COLUMBUS	40	76.49	266	102.48	102.14
25 CRAVEN	42	52.36	209	54.30	73.64
26 CUMBERLAND	118	46.28	597	47.09	98.20
27 CURRITUCK	6	44.89	40	63.14	62.16
28 DARE	5	26.73	46	55.67	51.49
29 DAVIDSON	82	68.85	354	60.58	67.66
30 DAVIE	13	45.75	83	60.46	66.08
31 DUPLIN	47	112.75	207	99.77	86.23
32 DURHAM	94	56.68	487	60.77	57.62
33 EDGECOMBE	58	98.18	306	105.89	94.40
34 FORSYTH	167	64.02	893	69.99	65.93
35 FRANKLIN	24	70.23	120	74.67	55.90
36 GASTON	135	78.58	631	74.72	78.45
37 GATES	5	52.31	33	71.11	48.69
38 GRAHAM	3	41.82	19	53.23	47.87*
39 GRANVILLE	37	98.15	157	86.39	74.54
40 GREENE	9	54.26	67	81.51	82.85
41 GUILFORD	292	88.52	1334	82.17	79.15

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CEREBROVASCULAR DISEASE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	63	112.43	308	110.37	83.89
43 HARNETT	52	81.23	220	70.45	75.44
44 HAYWOOD	32	66.02	198	83.27	69.93
45 HENDERSON	59	87.76	313	96.76	59.86
46 HERTFORD	22	91.49	92	77.14	58.22
47 HOKE	6	25.93	60	53.51	62.54
48 HYDE	9	152.31	38	127.93	86.50
49 IREDELL	72	81.42	403	93.33	86.57
50 JACKSON	13	48.91	67	49.84	42.52
51 JOHNSTON	66	84.40	271	72.15	70.88
52 JONES	13	132.46	59	120.46	101.84
53 LEE	23	55.54	133	67.47	69.17
54 LENOIR	58	96.31	311	103.06	97.08
55 LINCOLN	34	73.46	166	74.44	81.90
56 MCDOWELL	33	91.10	129	71.28	73.34
57 MACON	15	64.97	76	67.34	33.72
58 MADISON	16	92.17	80	93.03	76.10 *
59 MARTIN	22	82.33	122	91.93	74.56
60 MECKLENBURG	227	50.09	1243	57.27	66.14
61 MITCHELL	16	110.03	63	87.51	49.87
62 MONTGOMERY	15	62.88	95	80.87	69.27
63 MOORE	60	107.12	299	110.94	83.47
64 NASH	54	75.79	321	91.50	87.61
65 NEW HANOVER	90	78.49	486	87.90	91.19
66 NORTHAMPTON	20	88.90	127	113.16	74.27
67 ONSLOW	33	26.37	186	31.01	77.12
68 ORANGE	50	59.01	199	48.96	64.14
69 PAMLICO	6	54.28	36	66.48	50.45
70 PASQUOTANK	10	33.48	98	67.43	56.85
71 PENDER	25	99.21	122	102.10	91.85
72 PERQUIMANS	15	142.39	49	97.93	60.41
73 PERSON	24	78.30	118	78.30	69.15
74 PITT	75	76.99	339	71.13	80.02
75 POLK	20	138.06	84	118.48	63.64
76 RANDOLPH	60	60.56	427	88.90	98.23
77 RICHMOND	57	123.30	248	108.45	95.42
78 ROBESON	69	65.03	478	90.88	94.41
79 ROCKINGHAM	71	83.02	381	89.47	83.67
80 ROWAN	110	105.23	468	91.38	72.79
81 RUTHERFORD	64	112.51	276	98.33	80.23
82 SAMPSON	49	97.37	234	93.28	79.50
83 SCOTLAND	21	62.24	147	87.65	100.78
84 STANLY	61	121.33	214	86.38	79.52
85 STOKES	17	47.73	100	57.10	59.98
86 SURRY	58	94.23	229	75.48	69.27
87 SWAIN	5	45.71	46	85.97	59.88
88 TRANSYLVANIA	18	68.88	78	62.14	50.29
89 TYRRELL	7	171.23	23	110.90	97.62
90 UNION	41	51.35	224	58.58	70.30
91 VANCE	24	61.95	144	76.01	58.66
92 WAKE	166	45.35	857	50.48	69.36
93 WARREN	16	97.25	100	122.09	63.86
94 WASHINGTON	4	27.50	49	67.65	75.73
95 WATAUGA	16	46.40	65	38.32	42.43
96 WAYNE	73	74.94	398	81.20	91.11
97 WILKES	44	72.45	195	64.64	70.27
98 WILSON	60	92.93	300	93.42	91.17
99 YADKIN	21	70.84	116	79.03	74.34
100 YANCEY	11	69.43	54	69.90	64.94 *

* SEE SECTION I

CEREBROVASCULAR DISEASES

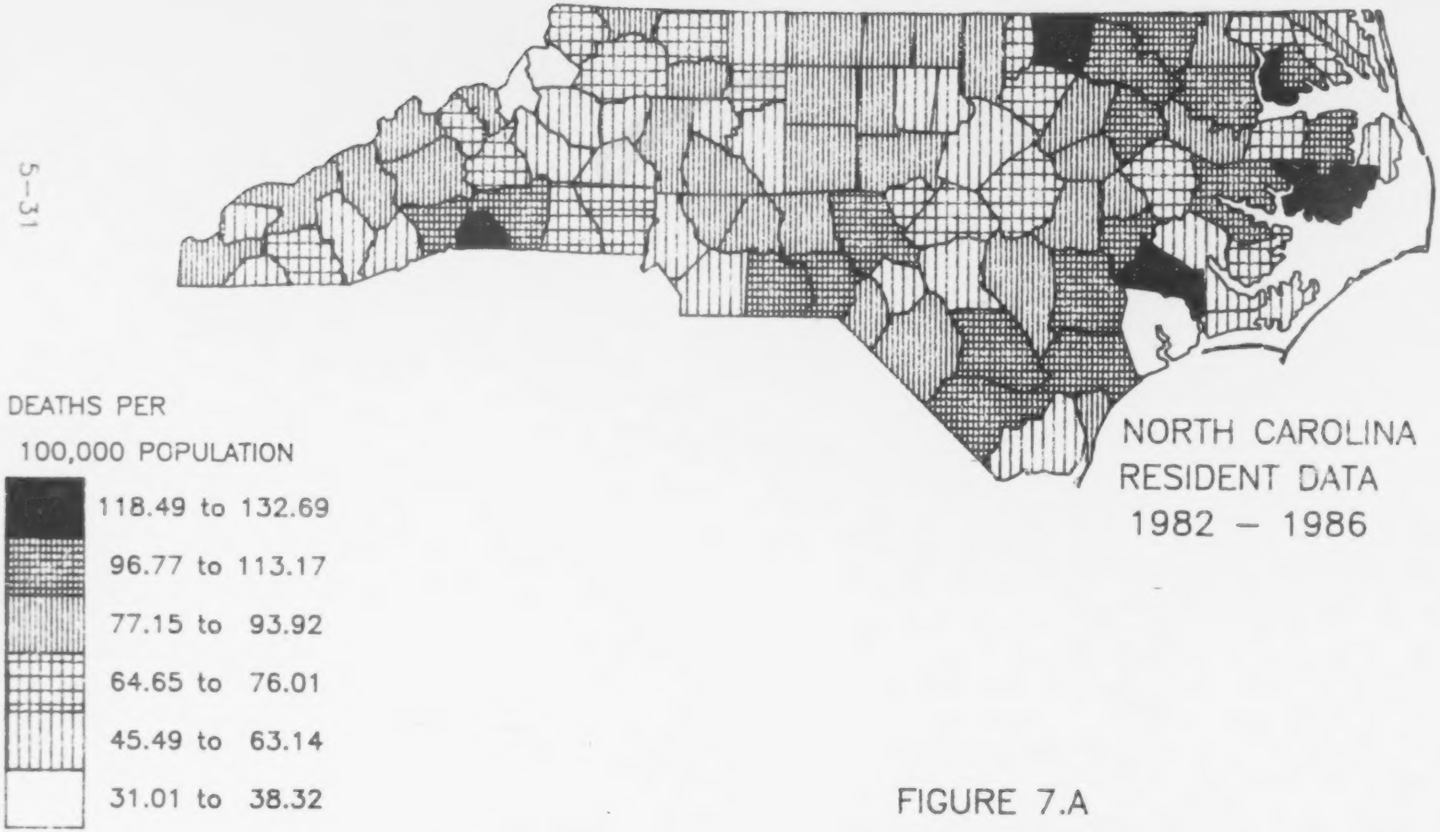

DEATHS PER
100,000 POPULATION
118.49 to 132.69
96.77 to 113.17
77.15 to 93.92
64.65 to 76.01
45.49 to 63.14
31.01 to 38.32
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 7.A

CEREBROVASCULAR DISEASES

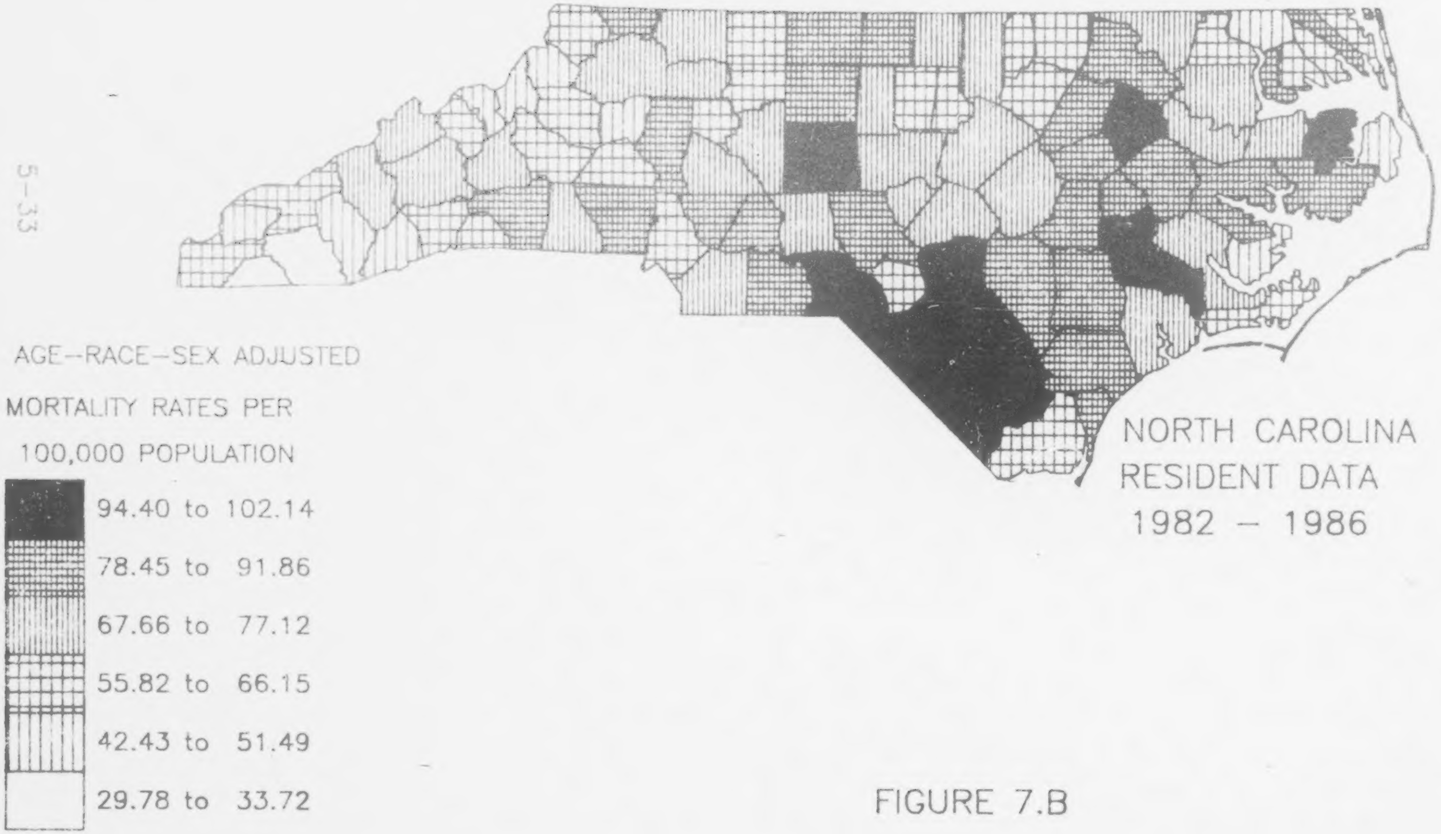

NORTH CAROLINA
RESIDENT DATA
1982 - 1986
AGE--RACE--SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
94.40 to 102.14
78.45 to 91.86
67.66 to 77.12
55.82 to 66.15
42.43 to 51.49
29.78 to 33.72

FIGURE 7.B

TABLE 8

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

ATHEROSCLEROSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	560	8.84	2716	8.80	8.80
REGIONS					
DHR I WESTERN	184	8.49	943	8.92	8.04
DHR II N. CENTRAL	131	9.82	562	8.60	8.02
DHR III S. CENTRAL	127	8.53	633	8.80	10.25
DHR IV EASTERN	118	8.77	578	8.81	9.34
HSA I WESTERN	100	9.26	499	9.41	7.69
HSA II PIEDMONT	122	10.38	527	9.13	8.63
HSA III S. PIEDMONT	84	7.72	444	8.42	8.62
HSA IV CAPITAL	82	8.81	348	7.87	8.35
HSA V CARDINAL	71	7.43	426	9.09	10.55
HSA VI EASTERN	101	9.14	472	8.72	9.30
COUNTIES					
1 ALAMANCE	26	25.18	77	15.15	13.37
2 ALEXANDER	4	14.91	11	8.33	10.71
3 ALLEGHANY	0	0.00	3	6.12	3.60
4 ANSON	2	7.59	9	6.90	4.12
5 ASHE	1	4.30	16	13.80	7.88
6 AVERY	0	0.00	3	4.01	3.53
7 BEAUFORT	1	2.30	9	4.21	3.80
8 BERTIE	3	14.11	10	9.37	7.61
9 BLADEN	3	9.73	10	6.50	7.58
10 BRUNSWICK	1	2.09	15	6.91	8.01
11 BUNCOMBE	29	17.05	124	14.89	11.13
12 BURKE	3	3.94	14	3.74	3.63
13 CABARRUS	3	3.23	20	4.38	4.22
14 CALDWELL	4	5.70	16	4.64	5.19
15 CAMDEN	2	34.12	7	24.09	23.17
16 CARTERET	3	5.95	10	4.24	3.21
17 CASWELL	0	0.00	8	7.28	6.76
18 CATAWBA	3	2.62	31	5.58	5.42
19 CHATHAM	4	11.10	10	5.69	4.56
20 CHEROKEE	0	0.00	4	4.01	2.22
21 CHOWAN	2	14.93	7	10.80	7.31
22 CLAY	2	27.73	3	8.51	3.32
23 CLEVELAND	7	8.11	39	9.19	8.28
24 COLUMBUS	1	1.91	24	9.24	8.67
25 CRAVEN	6	7.48	34	8.83	11.56
26 CUMBERLAND	7	2.74	51	4.02	9.49
27 CURRITUCK	2	14.96	9	14.20	14.20
28 DARE	3	16.03	14	16.94	14.72
29 DAVIDSON	13	10.91	57	9.75	10.12
30 DAVIE	1	3.51	7	5.09	6.24
31 DUPLIN	9	21.59	30	14.46	13.17
32 DURHAM	34	20.50	141	17.59	15.99
33 EDGECOMBE	5	8.46	31	10.72	11.65
34 FORSYTH	16	6.13	81	6.34	6.04
35 FRANKLIN	0	0.00	4	2.48	1.87
36 GASTON	12	6.98	60	7.10	7.65
37 GATES	3	31.39	8	17.23	11.44
38 GRAHAM	0	0.00	1	2.80	2.44
39 GRANVILLE	4	10.61	9	4.95	4.24
40 GREENE	0	0.00	8	9.73	10.25
41 GUILFORD	37	11.21	163	10.04	9.48

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
ATHEROSCLEROSIS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	5	8.92	31	11.10	8.13
43 HARNETT	4	6.24	15	4.80	5.25
44 HAYWOOD	2	4.12	18	7.57	4.20
45 HENDERSON	5	7.43	28	8.65	4.11
46 HERTFORD	2	8.31	7	5.86	5.19
47 HOKE	1	4.32	9	8.02	10.22
48 HYDE	0	0.00	1	3.36	0.93
49 IREDELL	10	11.30	57	13.20	12.31
50 JACKSON	5	18.81	14	10.41	8.25
51 JOHNSTON	7	8.95	22	5.85	5.81
52 JONES	2	20.37	8	16.33	12.26
53 LEE	4	9.65	23	11.66	11.95
54 LENOIR	11	18.26	37	12.26	11.44
55 LINCOLN	2	4.32	23	10.31	9.74
56 MCDOWELL	2	5.52	18	9.94	7.45
57 MACON	2	8.66	10	8.86	3.89
58 MADISON	2	11.52	9	10.46	6.07
59 MARTIN	2	7.48	5	3.76	3.92
60 MECKLENBURG	30	6.62	141	6.49	7.62
61 MITCHELL	3	20.63	9	12.50	6.24
62 MONTGOMERY	1	4.19	11	9.36	7.51
63 MOORE	13	23.21	62	23.00	16.93
64 NASH	2	2.80	20	5.70	6.30
65 NEW HANOVER	13	11.33	58	10.49	11.01
66 NORTHAMPTON	5	22.22	20	17.82	15.89
67 ONSLOW	5	3.99	27	4.50	12.84
68 ORANGE	4	4.72	33	8.11	10.36
69 PAMLICO	0	0.00	3	5.54	4.20
70 PASQUOTANK	2	6.69	14	9.63	8.21
71 PENDER	2	7.93	9	7.53	8.50
72 PERQUIMANS	4	37.97	14	27.98	16.62
73 PERSON	4	13.05	10	6.63	6.22
74 PITT	3	3.07	26	5.45	6.70
75 POLK	3	20.70	12	16.92	8.85
76 RANDOLPH	7	7.06	26	5.41	5.88
77 RICHMOND	9	19.46	32	13.99	12.65
78 ROBESON	8	7.54	72	13.68	17.12
79 ROCKINGHAM	10	11.69	36	8.45	8.05
80 ROWAN	20	19.13	100	19.52	14.27
81 RUTHERFORD	13	22.85	48	17.10	13.11
82 SAMPSON	3	5.96	21	8.37	7.26
83 SCOTLAND	3	8.89	28	16.69	20.92
84 STANLY	3	5.96	27	10.89	10.07
85 STOKES	4	11.23	17	9.70	8.76
86 SURRY	6	9.74	46	15.16	11.11
87 SWAIN	0	0.00	9	16.82	11.77 *
88 TRANSYLVANIA	1	3.82	18	14.34	14.33
89 TYRRELL	0	0.00	0	0.00	0.00
90 UNION	4	5.01	16	4.18	4.98
91 VANCE	1	2.58	4	2.11	1.84
92 WAKE	20	5.46	84	4.94	6.94
93 WARREN	0	0.00	8	9.76	6.66
94 WASHINGTON	2	13.75	5	6.90	8.71
95 WATAUGA	3	8.70	11	6.48	14.32 *
96 WAYNE	12	12.31	43	8.77	10.97
97 WILKES	5	8.23	19	6.29	5.25
98 WILSON	5	7.74	34	10.58	11.46
99 YADKIN	2	6.74	9	6.13	4.23
100 YANCEY	1	6.31	11	14.23	7.81

* SEE SECTION I

TABLE 9

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE☆ 1986	NUMBER OF DEATHS 1982-86	DEATH RATE☆ 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	11584	182.96	53942	174.85	174.85
REGIONS					
DHR I WESTERN	4153	191.72	18915	179.01	171.42
DHR II N. CENTRAL	2596	194.74	11935	182.64	173.93
DHR III S. CENTRAL	2269	152.52	11068	153.94	176.37
DHR IV EASTERN	2566	190.85	12024	183.31	185.13
HSA I WESTERN	2106	195.17	9795	184.84	166.80
HSA II PIEDMONT	2241	190.67	10420	180.59	174.98
HSA III S. PIEDMONT	2047	188.30	9120	173.13	176.71
HSA IV CAPITAL	1509	162.27	7204	163.06	175.88
HSA V CARDINAL	1601	167.57	7653	163.34	179.49
HSA VI EASTERN	2080	188.31	9750	180.21	183.50
COUNTIES					
1 ALAMANCE	207	200.52	1010	198.76	170.92
2 ALEXANDER	36	134.25	165	125.07	153.34
3 ALLEGHANY	26	267.43	103	210.29	174.11
4 ANSON	50	189.94	241	184.79	159.93
5 ASHE	40	172.03	219	188.92	185.02
6 AVERY	27	179.66	124	166.05	176.17
7 BEAUFORT	107	246.56	458	214.67	187.24
8 BERTIE	48	225.87	251	235.21	194.22
9 BLADEN	56	181.66	262	170.49	160.02
10 BRUNSWICK	95	198.75	404	186.27	177.50
11 BUNCOMBE	360	211.75	1806	216.92	183.12
12 BURKE	132	173.70	547	146.20	147.50
13 CABARRUS	212	228.34	849	186.23	171.37
14 CALDWELL	118	168.22	561	162.79	177.46
15 CAMDEN	14	238.86	63	216.82	195.86
16 CARTERET	96	190.42	498	211.19	198.07
17 CASWELL	34	151.18	166	151.23	141.83
18 CATAWBA	192	168.21	908	163.57	173.91
19 CHATHAM	54	149.93	298	169.85	151.06
20 CHEROKEE	38	186.61	197	197.86	170.34
21 CHOWAN	44	328.67	173	266.92	199.49
22 CLAY	18	249.65	79	224.23	207.03 *
23 CLEVELAND	171	198.33	734	173.09	164.83
24 COLUMBUS	111	212.26	446	171.83	162.87
25 CRAVEN	118	147.11	566	147.05	182.26
26 CUMBERLAND	265	103.94	1326	104.60	185.69
27 CURRITUCK	24	179.56	128	202.06	188.06
28 DARE	28	149.69	153	185.18	154.07
29 DAVIDSON	209	175.49	976	167.04	171.25
30 DAVIE	49	172.44	245	178.47	189.01
31 DUPLIN	88	211.10	428	206.30	180.26
32 DURHAM	292	176.07	1471	183.57	187.76
33 EDGECOMBE	119	201.45	542	187.55	186.61
34 FORSYTH	515	197.42	2289	179.42	175.06
35 FRANKLIN	71	207.76	306	190.43	155.44
36 GASTON	315	183.36	1447	171.35	174.81
37 GATES	28	292.97	112	241.34	186.17
38 GRAHAM	15	209.11	70	196.14	136.83
39 GRANVILLE	72	191.00	342	188.19	159.61
40 GREENE	28	168.81	133	161.81	173.37
41 GUILFORD	624	189.17	3061	188.55	187.38

☆ SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	112	199.89	551	197.46	162.00
43 HARNETT	121	189.03	545	174.52	184.57
44 HAYWOOD	109	224.88	509	214.08	176.53
45 HENDERSON	148	220.16	720	222.58	164.45
46 HERTFORD	59	245.36	258	216.34	178.76
47 HOKE	29	125.35	133	118.63	153.11
48 HYDE	22	372.31	58	195.27	162.09
49 IREDELL	177	200.16	786	182.04	168.44
50 JACKSON	41	154.26	209	155.48	147.75
51 JOHNSTON	143	182.88	696	185.30	177.14
52 JONES	17	173.22	89	181.71	151.05
53 LEE	62	149.72	346	175.52	178.20
54 LENOIR	129	214.21	606	200.82	190.04
55 LINCOLN	72	155.58	350	156.96	160.77
56 MCDOWELL	80	220.87	298	164.66	147.30
57 MACON	56	242.58	261	231.29	158.02
58 MADISON	27	155.53	154	179.09	142.98
59 MARTIN	53	198.36	264	198.94	172.75
60 MECKLENBURG	792	174.79	3585	165.19	186.94
61 MITCHELL	30	206.31	154	213.92	141.18
62 MONTGOMERY	48	201.24	231	196.66	176.81
63 MOORE	137	244.60	634	235.25	177.50
64 NASH	145	203.53	625	178.17	172.81
65 NEW HANOVER	222	193.62	1156	209.09	214.19
66 NORTHAMPTON	54	240.03	264	235.24	202.33
67 ONSLOW	119	95.09	525	87.53	184.66
68 ORANGE	132	155.79	530	130.40	171.17
69 PAMLICO	30	271.41	128	236.37	190.16
70 PASQUOTANK	77	257.87	323	222.25	206.00
71 PENDER	58	230.16	268	224.29	192.08
72 PERQUIMANS	25	237.32	104	207.85	147.96
73 PERSON	66	215.34	264	175.19	160.10
74 PITT	149	152.96	795	166.80	192.25
75 POLK	45	310.64	199	280.70	178.37
76 RANDOLPH	164	165.53	771	160.52	170.46
77 RICHMOND	100	216.32	434	189.79	169.03
78 ROBESON	174	164.00	822	156.29	181.04
79 ROCKINGHAM	203	237.38	819	192.34	176.66
80 ROWAN	241	230.57	1069	208.75	171.52
81 RUTHERFORD	129	226.79	528	188.11	160.67
82 SAMPSON	87	172.89	489	194.93	172.39
83 SCOTLAND	48	142.28	262	156.23	176.66
84 STANLY	91	181.00	462	186.50	164.39
85 STOKES	56	157.25	275	157.04	164.39
86 SURRY	121	196.60	543	178.98	168.05
87 SWAIN	28	255.98	119	222.41	187.24
88 TRANSYLVANIA	56	214.29	261	207.94	181.60
89 TYRRELL	10	244.61	51	245.91	205.70
90 UNION	147	184.13	572	149.60	173.22
91 VANCE	102	263.29	393	207.46	179.30
92 WAKE	471	128.68	2348	138.31	180.02
93 WARREN	44	267.44	210	256.40	193.73
94 WASHINGTON	43	295.71	163	225.06	217.00
95 WATAUGA	43	124.71	211	124.39	154.10
96 WAYNE	170	174.52	807	164.65	180.76
97 WILKES	102	167.96	484	160.45	152.96
98 WILSON	124	192.05	634	197.44	192.72
99 YADKIN	59	199.03	265	180.56	154.59
100 YANCEY	39	246.16	175	226.53	201.58

* SEE SECTION I

TOTAL CANCER

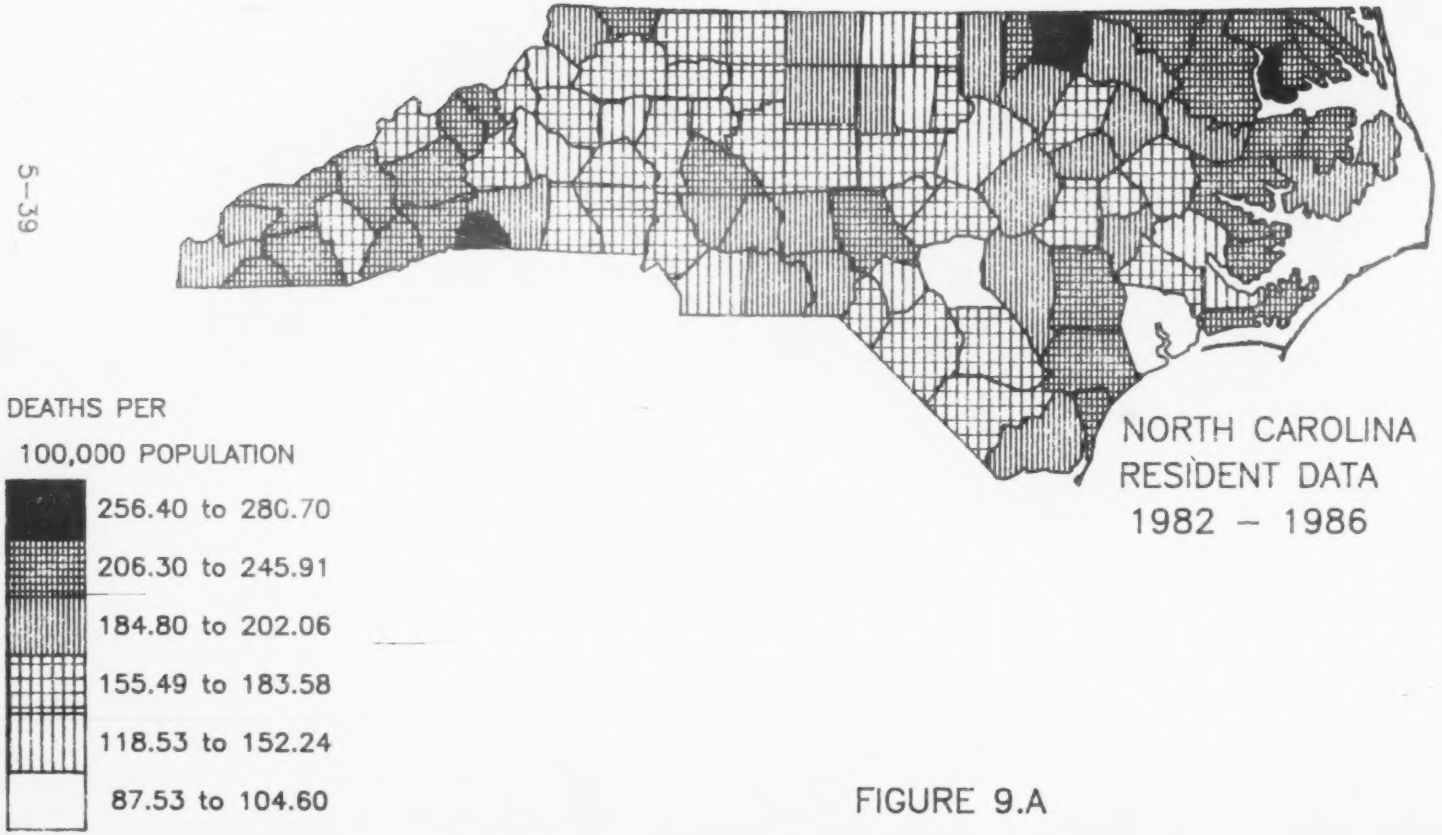

DEATHS PER
100,000 POPULATION
256.40 to 280.70
206.30 to 245.91
184.80 to 202.06
155.49 to 183.58
118.53 to 152.24
87.53 to 104.60
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 9.A

TOTAL CANCER

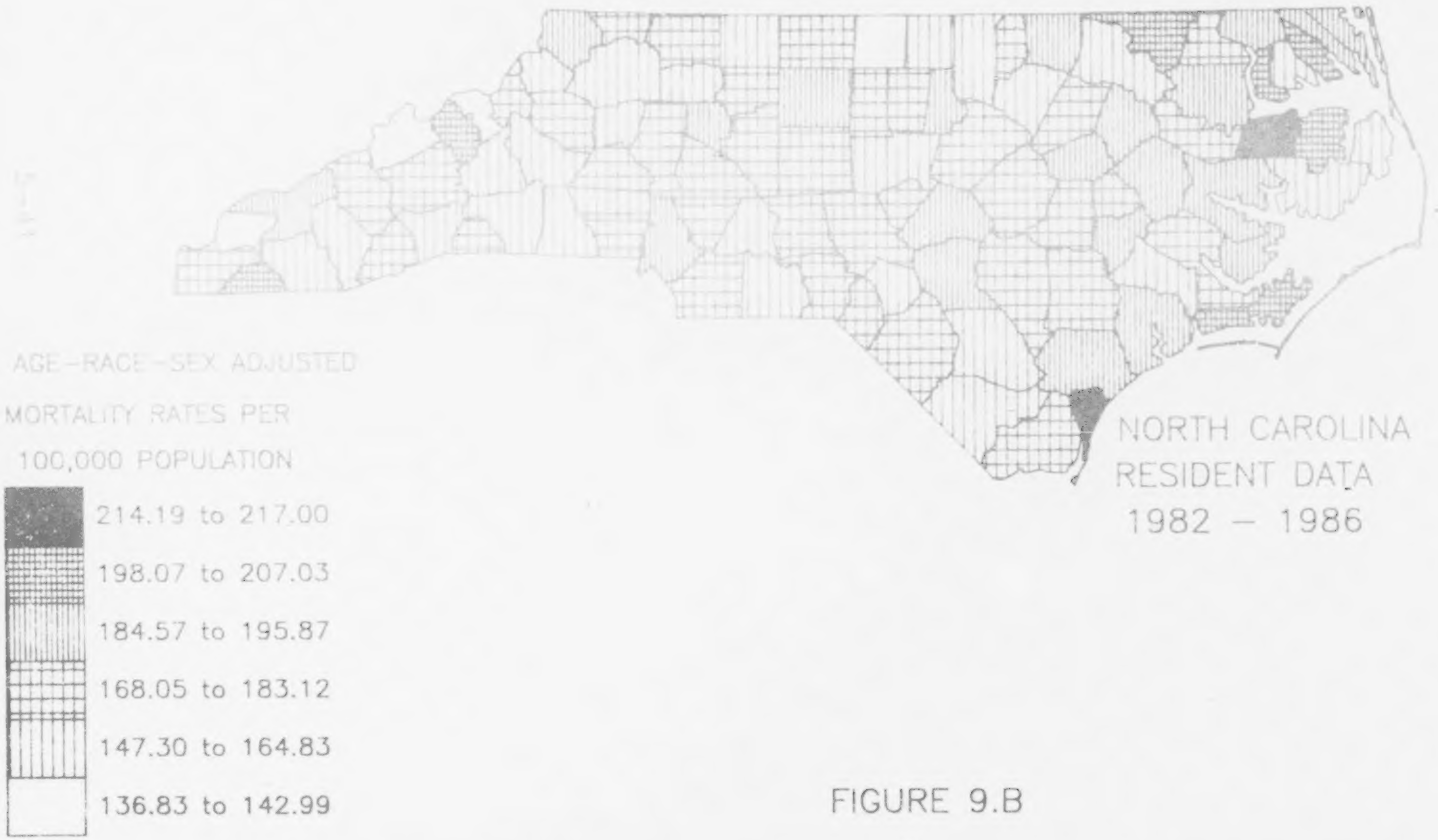

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
214.19 to 217.00
198.07 to 207.03
184.57 to 195.87
168.05 to 183.12
147.30 to 164.83
136.83 to 142.99
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 9.B

TABLE 10

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF STOMACH

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	328	5.18	1470	4.76	4.76
REGIONS					
DHR I WESTERN	116	5.35	518	4.90	4.98
DHR II N. CENTRAL	61	4.57	297	4.54	4.38
DHR III S. CENTRAL	66	4.43	294	4.08	4.41
DHR IV EASTERN	85	6.32	361	5.50	4.87
HSA I WESTERN	69	6.39	279	5.26	5.40
HSA II PIEDMONT	51	4.33	250	4.33	4.36
HSA III S. PIEDMONT	47	4.32	239	4.53	4.77
HSA IV CAPITAL	50	5.37	203	4.59	4.63
HSA V CARDINAL	42	4.39	198	4.22	4.33
HSA VI EASTERN	69	6.24	301	5.56	4.89
COUNTIES					
1 ALAMANCE	4	3.87	27	5.31	4.76
2 ALEXANDER	3	11.18	6	4.54	5.76
3 ALLEGHANY	1	10.28	3	6.12	14.77 *
4 ANSON	0	0.00	3	2.30	1.65
5 ASHE	2	8.60	10	8.62	5.44
6 AVERY	2	13.30	3	4.01	2.97
7 BEAUFORT	6	13.82	24	11.24	8.73
8 BERTIE	1	4.70	11	10.30	6.99
9 BLADEN	0	0.00	5	3.25	2.87
10 BRUNSWICK	1	2.09	5	2.30	2.55
11 BUNCOMBE	12	7.05	56	6.72	6.30
12 BURKE	5	6.57	15	4.00	5.50
13 CABARRUS	5	5.38	22	4.82	4.53
14 CALDWELL	5	7.12	20	5.80	6.53
15 CAMDEN	0	0.00	3	10.32	7.67
16 CARTERET	3	5.95	7	2.96	3.05
17 CASWELL	1	4.44	4	3.64	2.51
18 CATAWBA	6	5.25	20	3.60	4.67
19 CHATHAM	1	2.77	8	4.55	3.87
20 CHEROKEE	0	0.00	5	5.02	2.96
21 CHOWAN	3	22.40	6	9.25	5.86
22 CLAY	1	13.86	1	2.83	2.33
23 CLEVELAND	4	4.63	20	4.71	4.86
24 COLUMBUS	7	13.38	13	5.00	4.19
25 CRAVEN	5	6.23	21	5.45	5.94
26 CUMBERLAND	10	3.92	48	3.78	6.72
27 CURRITUCK	0	0.00	2	3.15	3.01
28 DARE	1	5.34	1	1.21	0.69
29 DAVIDSON	6	5.03	23	3.93	4.75
30 DAVIE	1	3.51	7	5.09	5.23
31 DUPLIN	4	9.59	11	5.30	4.11
32 DURHAM	11	6.63	44	5.49	4.87
33 EDGECOMBE	3	5.07	19	6.57	4.43
34 FORSYTH	13	4.98	67	5.25	5.04
35 FRANKLIN	0	0.00	4	2.48	2.64
36 GASTON	4	2.32	39	4.61	4.73
37 GATES	0	0.00	0	0.00	0.00
38 GRAHAM	0	0.00	1	2.80	2.13
39 GRANVILLE	3	7.95	15	8.25	6.51
40 GREENE	1	6.02	4	4.86	6.26
41 GUILFORD	14	4.24	68	4.18	4.22

* SEE SECTION I

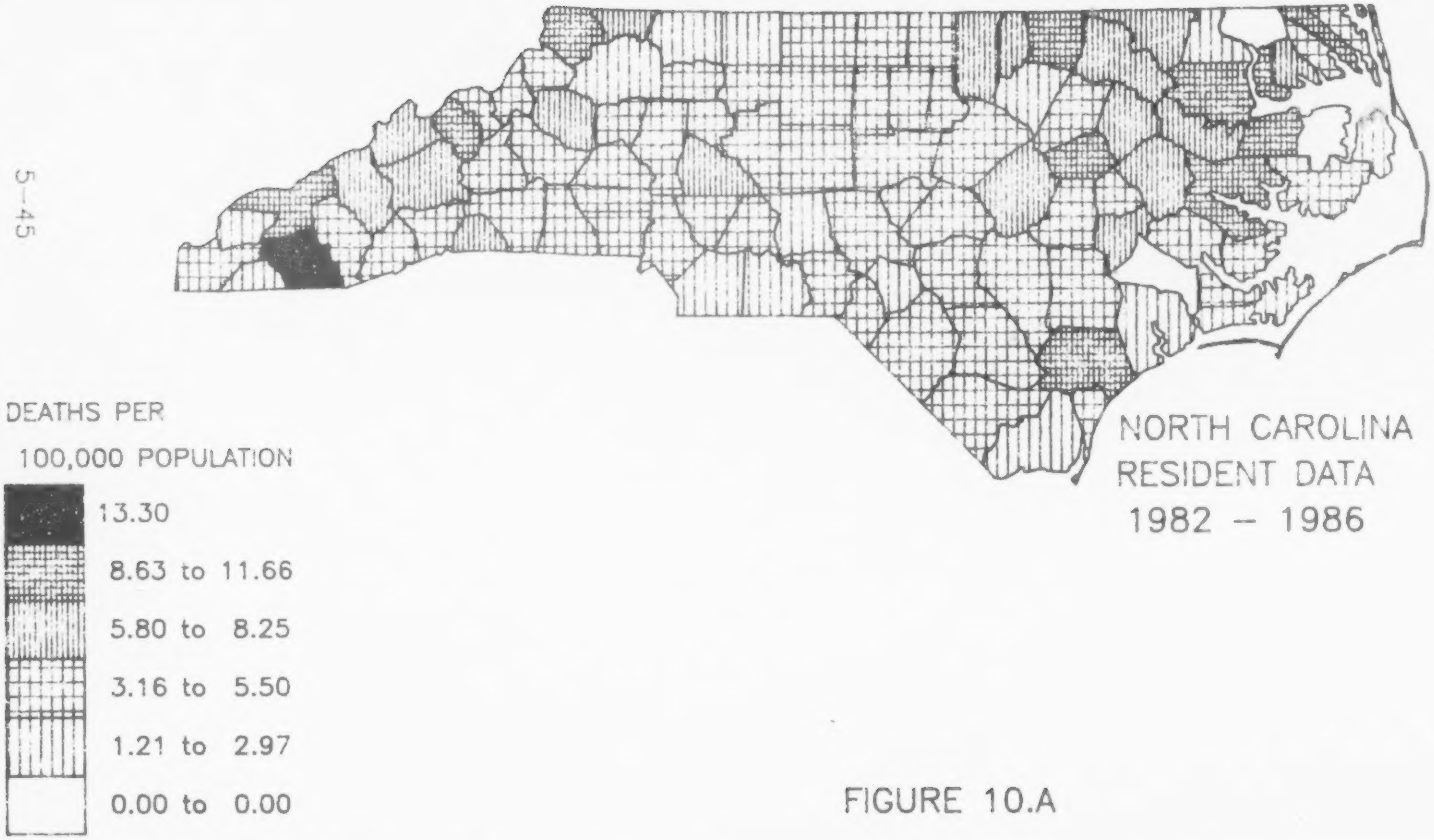
MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF STOMACH CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE¤ 1986	NUMBER OF DEATHS 1982-86	DEATH RATE¤ 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	4	7.13	18	6.45	3.91
43 HARNETT	4	6.24	13	4.16	4.42
44 HAYWOOD	4	8.25	16	6.72	4.16
45 HENDERSON	4	5.95	17	5.25	3.84
46 HERTFORD	0	0.00	2	1.67	0.55
47 HOKE	0	0.00	2	1.78	1.97
48 HYDE	0	0.00	1	3.36	2.96
49 IREDELL	4	4.52	16	3.70	3.44
50 JACKSON	1	3.76	6	4.46	3.59
51 JOHNSTON	9	11.51	25	6.65	6.59
52 JONES	0	0.00	0	0.00	0.00
53 LEE	1	2.41	7	3.55	3.92
54 LENOIR	10	16.60	24	7.95	5.38
55 LINCOLN	2	4.32	9	4.03	3.62
56 MCDOWELL	1	2.76	7	3.86	5.05
57 MACON	6	25.99	15	13.29	20.39
58 MADISON	2	11.52	6	6.97	4.17
59 MARTIN	0	0.00	10	7.53	5.77
60 MECKLENBURG	18	3.97	99	4.56	5.17
61 MITCHELL	0	0.00	3	4.16	2.58
62 MONTGOMERY	0	0.00	3	2.55	2.24
63 MOORE	0	0.00	10	3.71	2.88
64 NASH	4	5.61	16	4.56	4.20
65 NEW HANOVER	7	6.10	30	5.42	5.42
66 NORTHAMPTON	2	8.89	7	6.23	5.87
67 ONSLOW	3	2.39	10	1.66	3.47
68 ORANGE	3	3.54	15	3.69	4.73
69 PAMLICO	0	0.00	2	3.69	2.80
70 PASQUOTANK	1	3.34	7	4.81	3.39
71 PENDER	1	3.96	12	10.04	6.83
72 PERQUIMANS	2	18.98	4	7.99	5.64
73 PERSON	2	6.52	8	5.30	4.48
74 PITT	5	5.13	31	6.50	5.98
75 POLK	1	6.90	5	7.05	2.88
76 RANDOLPH	3	3.02	16	3.33	4.26
77 RICHMOND	4	8.65	12	5.24	4.24
78 ROBESON	5	4.71	22	4.18	3.92
79 ROCKINGHAM	5	5.84	19	4.46	4.08
80 ROWAN	11	10.52	35	6.83	5.66
81 RUTHERFORD	2	3.51	9	3.20	3.06
82 SAMPSON	2	3.97	12	4.78	3.96
83 SCOTLAND	1	2.96	8	4.77	5.53
84 STANLY	1	1.98	10	4.03	3.04
85 STOKES	0	0.00	5	2.85	2.54
86 SURRY	2	3.24	9	2.96	3.15
87 SWAIN	1	9.14	5	9.34	7.99 *
88 TRANSYLVANIA	2	7.65	6	4.78	3.30
89 TYRRELL	0	0.00	0	0.00	0.00
90 UNION	2	2.50	9	2.35	2.71
91 VANCE	5	12.90	11	5.80	3.72
92 WAKE	15	4.09	57	3.35	4.16
93 WARREN	0	0.00	9	10.98	6.47
94 WASHINGTON	1	6.87	7	9.66	7.97
95 WATAUGA	2	5.80	7	4.12	3.34
96 WAYNE	4	4.10	24	4.89	4.45
97 WILKES	0	0.00	8	2.65	3.09
98 WILSON	6	9.29	29	9.03	8.51
99 YADKIN	2	6.74	5	3.40	2.63
100 YANCEY	2	12.62	9	11.65	7.97

¤ SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF THE STOMACH


DEATHS PER
100,000 POPULATION
13.30
8.63 to 11.66
5.80 to 8.25
3.16 to 5.50
1.21 to 2.97
0.00 to 0.00

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 10.A

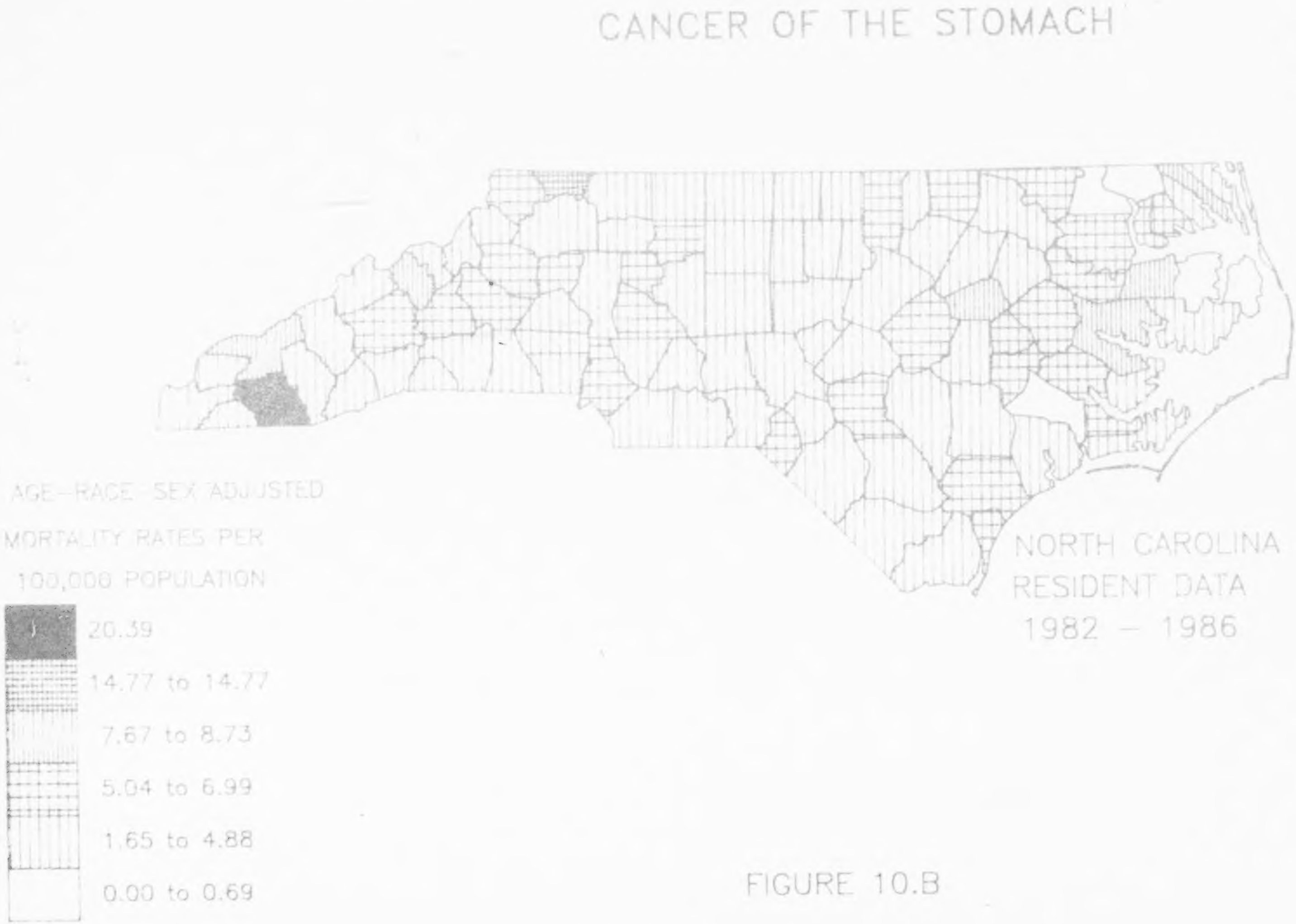

CANCER OF THE STOMACH
AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
20.39
14.77 to 14.77
7.67 to 8.73
5.04 to 6.99
1.65 to 4.88
0.00 to 0.69
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 10.B

TABLE 11

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF COLON, RECTUM AND ANUS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	1283	20.26	5803	18.81	18.81
REGIONS					
DHR I WESTERN	475	21.92	2106	19.93	19.01
DHR II N. CENTRAL	287	21.52	1301	19.91	18.91
DHR III S. CENTRAL	240	16.13	1123	15.61	17.95
DHR IV EASTERN	281	20.89	1273	19.40	19.86
HSA I WESTERN	233	21.59	1068	20.15	18.26
HSA II PIEDMONT	251	21.35	1139	19.74	19.10
HSA III S. PIEDMONT	242	22.26	1038	19.70	20.13
HSA IV CAPITAL	174	18.71	763	17.27	18.47
HSA V CARDINAL	156	16.32	769	16.41	18.07
HSA VI EASTERN	227	20.55	1026	18.96	19.65
COUNTIES					
1 ALAMANCE	23	22.28	113	22.23	19.21
2 ALEXANDER	9	33.56	28	21.22	29.95
3 ALLEGHANY	0	0.00	9	18.37	11.49
4 ANSON	3	11.39	17	13.03	9.59
5 ASHE	4	17.20	19	16.39	17.18 *
6 AVERY	2	13.30	9	12.05	44.16 *
7 BEAUFORT	8	18.43	38	17.81	16.03
8 BERTIE	10	47.05	29	27.17	22.61
9 BLADEN	4	12.97	26	16.91	15.69
10 BRUNSWICK	11	23.01	40	18.44	18.59
11 BUNCOMBE	37	21.76	186	22.34	18.70
12 BURKE	11	14.47	61	16.30	14.90
13 CABARRUS	34	36.62	100	21.93	19.57
14 CALDWELL	12	17.10	50	14.50	16.15
15 CAMDEN	1	17.06	8	27.53	23.26
16 CARTERET	13	25.78	61	25.86	22.48
17 CASWELL	6	26.67	13	11.84	13.19
18 CATAWBA	21	18.39	106	19.09	22.00
19 CHATHAM	8	22.21	31	17.66	15.11
20 CHEROKEE	4	19.64	17	17.07	13.02
21 CHOWAN	2	14.93	18	27.77	19.45
22 CLAY	6	83.21	11	31.22	17.07
23 CLEVELAND	18	20.87	96	22.63	21.27
24 COLUMBUS	6	11.47	29	11.17	10.51
25 CRAVEN	11	13.71	60	15.58	18.58
26 CUMBERLAND	14	5.49	110	8.67	16.22
27 CURRITUCK	4	29.92	17	26.83	24.67
28 DARE	4	21.38	23	27.83	23.55
29 DAVIDSON	18	15.11	96	16.43	16.27
30 DAVIE	6	21.11	29	21.12	22.04
31 DUPLIN	4	9.59	35	16.87	14.65
32 DURHAM	34	20.50	164	20.46	20.53
33 EDGECOMBE	13	22.00	56	19.37	18.29
34 FORSYTH	60	23.00	255	19.98	19.18
35 FRANKLIN	8	23.41	29	18.04	12.33
36 GASTON	37	21.53	148	17.52	17.53
37 GATES	0	0.00	12	25.85	23.61
38 GRAHAM	3	41.82	8	22.41	15.10
39 GRANVILLE	7	18.56	41	22.56	19.16
40 GREENE	0	0.00	13	15.81	14.88
41 GUILFORD	64	19.40	343	21.12	21.00

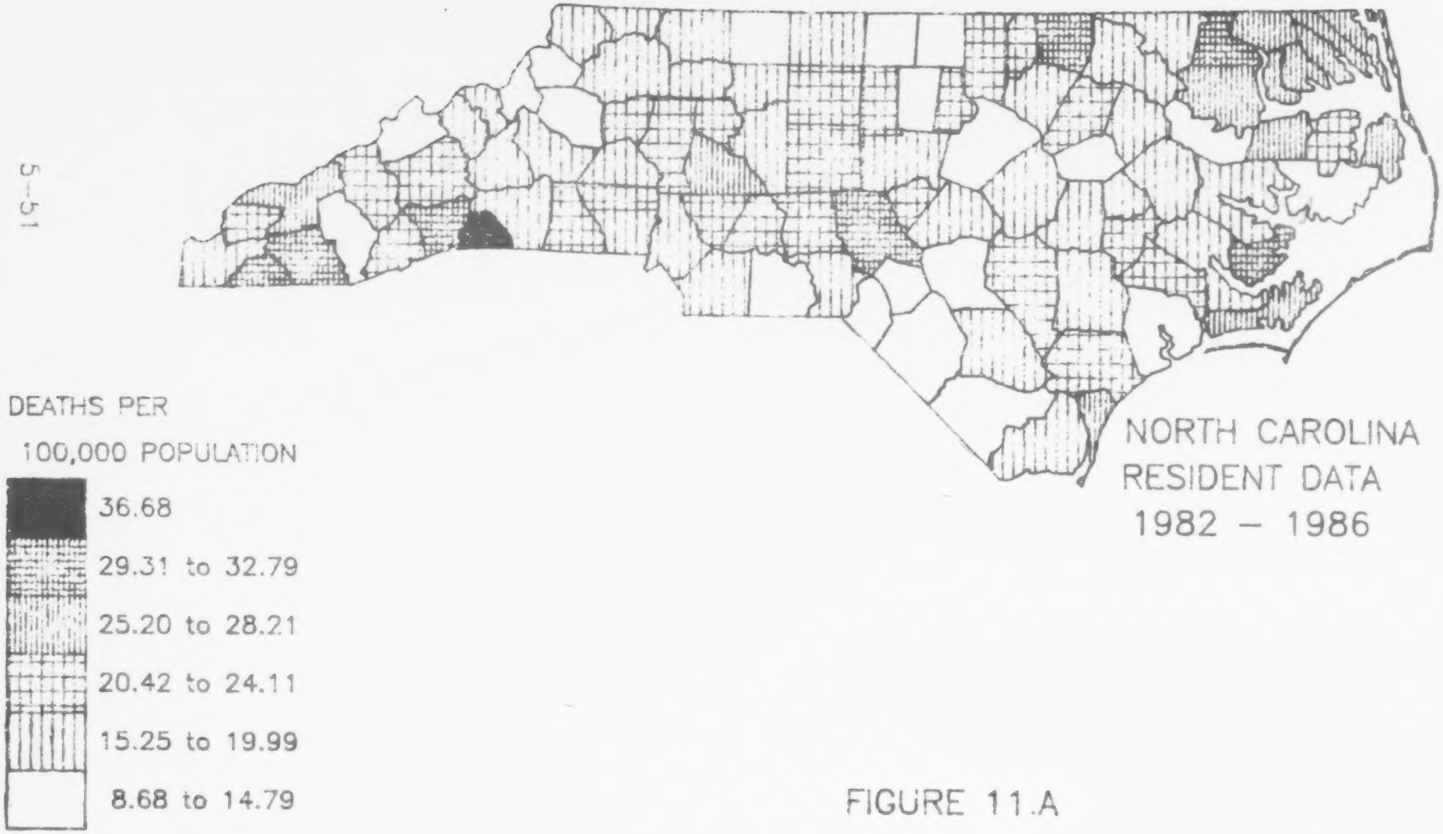
* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF COLON, RECTUM AND ANUS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	8	14.27	55	19.71	16.77
43 HARNETT	10	15.62	61	19.53	20.96
44 HAYWOOD	13	26.82	51	21.45	24.13
45 HENDERSON	17	25.28	100	30.91	20.66
46 HERTFORD	12	49.90	36	30.18	26.05
47 HOKE	2	8.64	11	9.81	9.72
48 HYDE	2	33.84	4	13.46	13.13
49 IREDELL	12	13.57	90	20.84	19.44
50 JACKSON	1	3.76	17	12.64	10.60
51 JOHNSTON	9	11.51	61	16.24	15.81
52 JONES	0	0.00	10	20.41	18.35
53 LEE	13	31.39	41	20.79	20.78
54 LENOIR	13	21.58	66	21.87	22.23
55 LINCOLN	10	21.60	51	22.87	27.23
56 MCDOWELL	7	19.32	34	18.78	20.41
57 MACON	8	34.65	37	32.78	28.08
58 MADISON	3	17.28	10	11.62	7.50
59 MARTIN	10	37.42	18	13.56	12.41
60 MECKLENBURG	75	16.55	401	18.47	21.09
61 MITCHELL	4	27.50	14	19.44	11.54
62 MONTGOMERY	2	8.38	26	22.13	20.60
63 MOORE	13	23.21	79	29.31	21.52
64 NASH	18	25.26	74	21.09	20.99
65 NEW HANOVER	34	29.65	153	27.67	28.48
66 NORTHAMPTON	4	17.78	21	18.71	17.52
67 ONSLOW	11	8.79	56	9.33	20.90
68 ORANGE	12	14.16	53	13.04	17.15
69 PAMLICO	5	45.23	16	29.54	22.35
70 PASQUOTANK	13	43.53	41	28.21	25.58
71 PENDER	3	11.90	25	20.92	16.42
72 PERQUIMANS	5	47.46	13	25.98	18.82
73 PERSON	5	16.31	21	13.93	12.42
74 PITT	15	15.39	82	17.20	19.80
75 POLK	7	48.32	26	36.67	19.98
76 RANDOLPH	25	25.23	102	21.23	21.91
77 RICHMOND	14	30.28	41	17.92	16.06
78 ROBESON	21	19.79	77	14.64	15.20
79 ROCKINGHAM	22	25.72	82	19.25	17.80
80 ROWAN	33	31.57	129	25.19	20.98
81 RUTHERFORD	14	24.61	51	18.17	14.59
82 SAMPSON	10	19.87	55	21.92	20.23
83 SCOTLAND	9	26.67	19	11.32	12.84
84 STANLY	14	27.84	57	23.01	19.82
85 STOKES	9	25.27	23	13.13	15.20
86 SURRY	11	17.87	55	18.12	16.94
87 SWAIN	4	36.56	15	28.03	23.42
88 TRANSYLVANIA	6	22.96	29	23.10	18.06
89 TYRRELL	2	48.92	5	24.10	16.87
90 UNION	27	33.82	62	16.21	18.96
91 VANCE	13	33.55	45	23.75	20.09
92 WAKE	62	16.93	251	14.78	19.72
93 WARREN	3	18.23	26	31.74	22.95
94 WASHINGTON	6	41.26	19	26.23	23.72
95 WATAUGA	4	11.60	23	13.55	12.42
96 WAYNE	24	24.63	93	18.97	20.55
97 WILKES	12	19.76	46	15.25	12.79
98 WILSON	9	13.93	47	14.63	14.88
99 YADKIN	7	23.61	28	19.07	16.77
100 YANCEY	6	37.87	15	19.41	12.32

* SEE SECTION I

CANCER OF THE COLON, RECTUM, AND ANUS


DEATHS PER
100,000 POPULATION
36.68
29.31 to 32.79
25.20 to 28.21
20.42 to 24.11
15.25 to 19.99
8.68 to 14.79

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 11.A

CANCER OF THE COLON, RECTUM AND ANUS

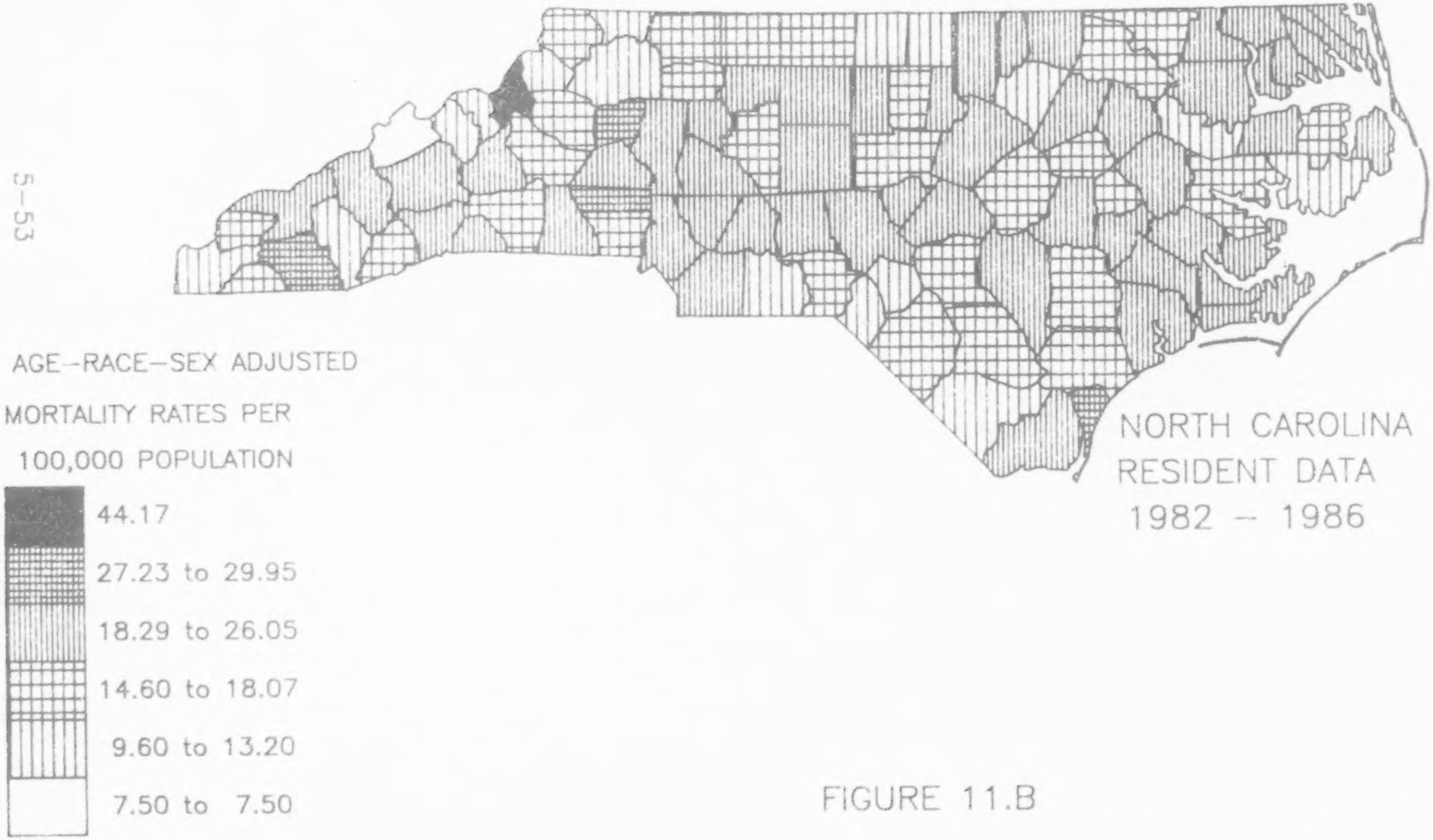

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
44.17
27.23 to 29.95
18.29 to 26.05
14.60 to 18.07
9.60 to 13.20
7.50 to 7.50
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 11.B

TABLE 12

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF PANCREAS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	606	9.57	2858	9.26	9.26
REGIONS					
DHR I WESTERN	197	9.09	1014	9.59	9.48
DHR II N. CENTRAL	149	11.17	644	9.85	9.40
DHR III S. CENTRAL	120	8.06	590	8.20	9.40
DHR IV EASTERN	140	10.41	610	9.30	9.38
HSA I WESTERN	98	9.08	526	9.92	9.22
HSA II PIEDMONT	125	10.63	570	9.87	9.67
HSA III S. PIEDMONT	99	9.10	488	9.26	9.66
HSA IV CAPITAL	80	8.60	363	8.21	8.86
HSA V CARDINAL	83	8.68	396	8.45	9.27
HSA VI EASTERN	121	10.95	515	9.51	9.70
COUNTIES					
1 ALAMANCE	9	8.71	49	9.64	8.20
2 ALEXANDER	1	3.72	5	3.79	8.45
3 ALLEGHANY	2	20.57	6	12.25	7.10
4 ANSON	0	0.00	12	9.20	7.28
5 ASHE	0	0.00	15	12.94	7.89
6 AVERY	1	6.65	4	5.35	18.69 *
7 BEAUFORT	7	16.13	24	11.24	8.80
8 BERTIE	3	14.11	17	15.93	9.02
9 BLADEN	5	16.22	15	9.76	9.27
10 BRUNSWICK	2	4.18	10	4.61	4.68
11 BUNCOMBE	20	11.76	89	10.69	9.09
12 BURKE	6	7.89	28	7.48	6.42
13 CABARRUS	7	7.53	38	8.33	7.73
14 CALDWELL	2	2.85	27	7.83	8.25
15 CAMDEN	2	34.12	4	13.76	12.56
16 CARTERET	5	9.91	32	13.57	10.38
17 CASWELL	6	26.67	14	12.75	9.94
18 CATAWBA	7	6.13	49	8.82	9.23
19 CHATHAM	1	2.77	11	6.26	5.86
20 CHEROKEE	1	4.91	9	9.03	9.22
21 CHOWAN	4	29.87	12	18.51	11.82
22 CLAY	1	13.86	8	22.70	12.15
23 CLEVELAND	9	10.43	45	10.61	10.21
24 COLUMBUS	3	5.73	21	8.09	7.73
25 CRAVEN	6	7.48	26	6.75	8.05
26 CUMBERLAND	21	8.23	78	6.15	11.82
27 CURRITUCK	1	7.48	5	7.89	8.88
28 DARE	2	10.69	12	14.52	10.22
29 DAVIDSON	10	8.39	57	9.75	10.48
30 DAVIE	4	14.07	12	8.74	7.74
31 DUPLIN	4	9.59	27	13.01	12.07
32 DURHAM	17	10.25	78	9.73	10.02
33 EDGECOMBE	5	8.46	18	6.22	5.91
34 FORSYTH	26	9.96	127	9.95	9.81
35 FRANKLIN	6	17.55	22	13.69	10.34
36 GASTON	10	5.82	71	8.40	8.95
37 GATES	1	10.46	5	10.77	5.14
38 GRAHAM	0	0.00	2	5.60	3.57
39 GRANVILLE	9	23.87	18	9.90	9.56
40 GREENE	6	36.17	12	14.59	15.80
41 GUILFORD	33	10.00	151	9.30	9.27

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF PANCREAS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE¤ 1986	NUMBER OF DEATHS 1982-86	DEATH RATE¤ 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	4	7.13	29	10.39	8.75
43 HARNETT	3	4.68	20	6.40	6.74
44 HAYWOOD	7	14.44	28	11.77	7.42
45 HENDERSON	4	5.95	29	8.96	7.33
46 HERTFORD	4	16.63	13	10.90	10.25
47 HOKE	2	8.64	10	8.91	9.52
48 HYDE	1	16.92	2	6.73	5.15
49 IREDELL	16	18.09	54	12.50	12.32
50 JACKSON	4	15.05	6	4.46	3.56
51 JOHNSTON	3	3.83	32	8.51	8.14
52 JONES	0	0.00	0	0.00	0.00
53 LEE	2	4.82	17	8.62	8.85
54 LENOIR	13	21.58	49	16.23	16.84
55 LINCOLN	6	12.96	21	9.41	8.36
56 MCDOWELL	8	22.08	20	11.05	10.77
57 MACON	2	8.66	18	15.95	7.78
58 MADISON	3	17.28	10	11.62	27.96*
59 MARTIN	3	11.22	15	11.30	10.68
60 MECKLENBURG	33	7.28	189	8.70	9.86
61 MITCHELL	1	6.87	9	12.50	18.80*
62 MONTGOMERY	6	25.15	14	11.91	10.38
63 MOORE	8	14.28	39	14.47	10.86
64 NASH	8	11.22	30	8.55	8.63
65 NEW HANOVER	10	8.72	51	9.22	9.40
66 NORTHAMPTON	5	22.22	18	16.03	14.30
67 ONSLOW	4	3.19	21	3.50	8.35
68 ORANGE	8	9.44	35	8.61	10.85
69 PAMLICO	1	9.04	3	5.54	3.48
70 PASQUOTANK	5	16.74	14	9.63	9.41
71 PENDER	4	15.87	13	10.87	10.54
72 PERQUIMANS	1	9.49	6	11.99	7.34
73 PERSON	6	19.57	16	10.61	9.89
74 PITT	10	10.26	46	9.65	10.75
75 POLK	2	13.80	9	12.69	9.35
76 RANDOLPH	9	9.08	45	9.36	11.20
77 RICHMOND	7	15.14	34	14.86	13.35
78 ROBESON	7	6.59	44	8.36	8.75
79 ROCKINGHAM	16	18.70	54	12.68	11.80
80 ROWAN	11	10.52	66	12.88	10.78
81 RUTHERFORD	5	8.79	35	12.46	11.65
82 SAMPSON	5	9.93	24	9.56	8.49
83 SCOTLAND	0	0.00	11	6.55	6.08
84 STANLY	4	7.95	17	6.86	5.38
85 STOKES	5	14.04	17	9.70	10.84
86 SURRY	5	8.12	29	9.55	8.40
87 SWAIN	1	9.14	10	18.69	12.81
88 TRANSYLVANIA	2	7.65	10	7.96	5.51
89 TYRRELL	0	0.00	1	4.82	7.82
90 UNION	12	15.03	32	8.36	9.84
91 VANCE	0	0.00	12	6.33	4.17
92 WAKE	25	6.83	116	6.83	9.06
93 WARREN	3	18.23	6	7.32	5.31
94 WASHINGTON	2	13.75	8	11.04	9.81
95 WATAUGA	1	2.90	14	8.25	7.65
96 WAYNE	7	7.18	34	6.93	7.91
97 WILKES	7	11.52	32	10.60	10.85
98 WILSON	7	10.84	32	9.96	9.53
99 YADKIN	2	6.74	15	10.22	7.27
100 YANCEY	1	6.31	9	11.65	7.37

¤ SEE SECTION I

CANCER OF THE PANCREAS

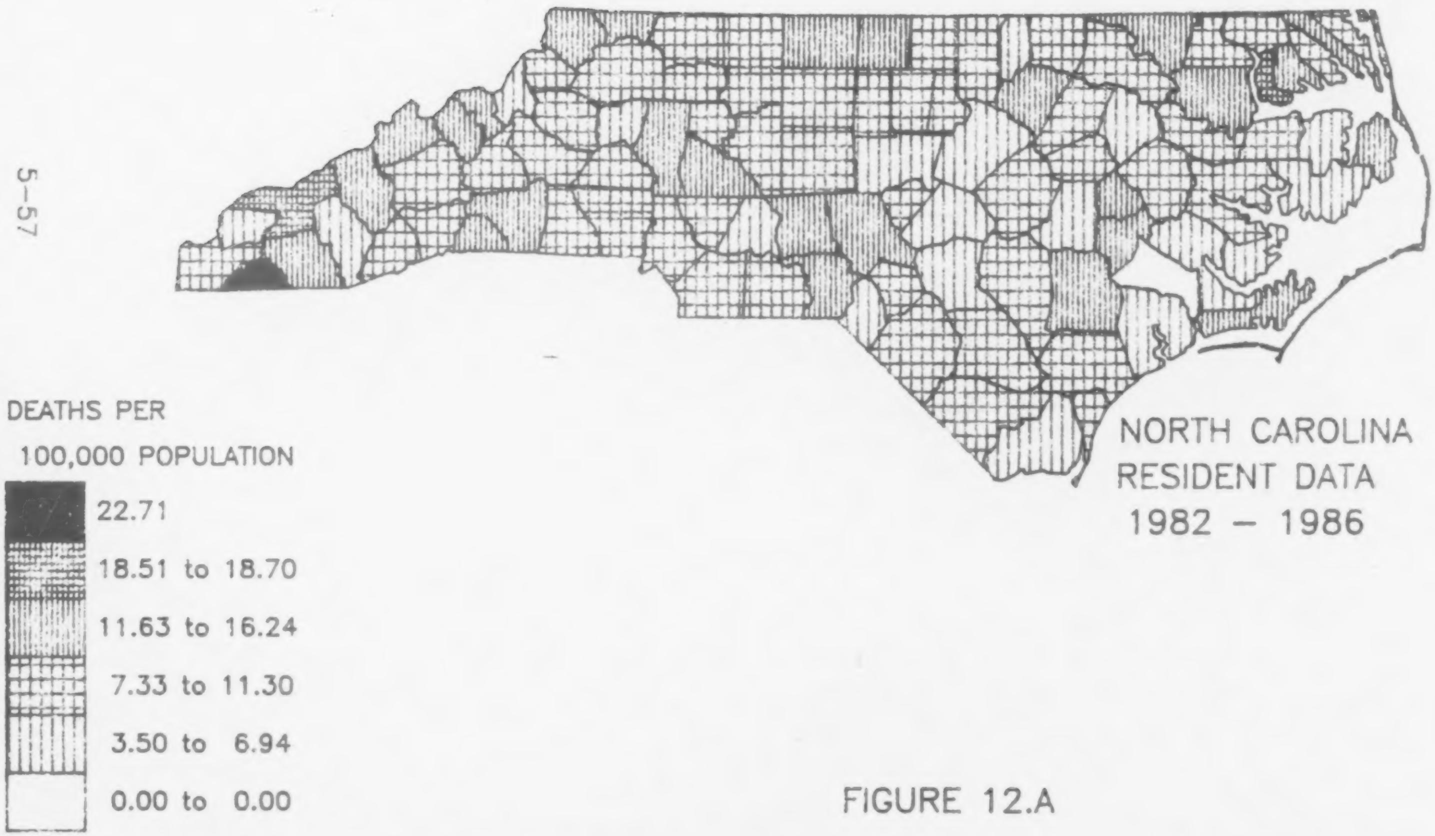
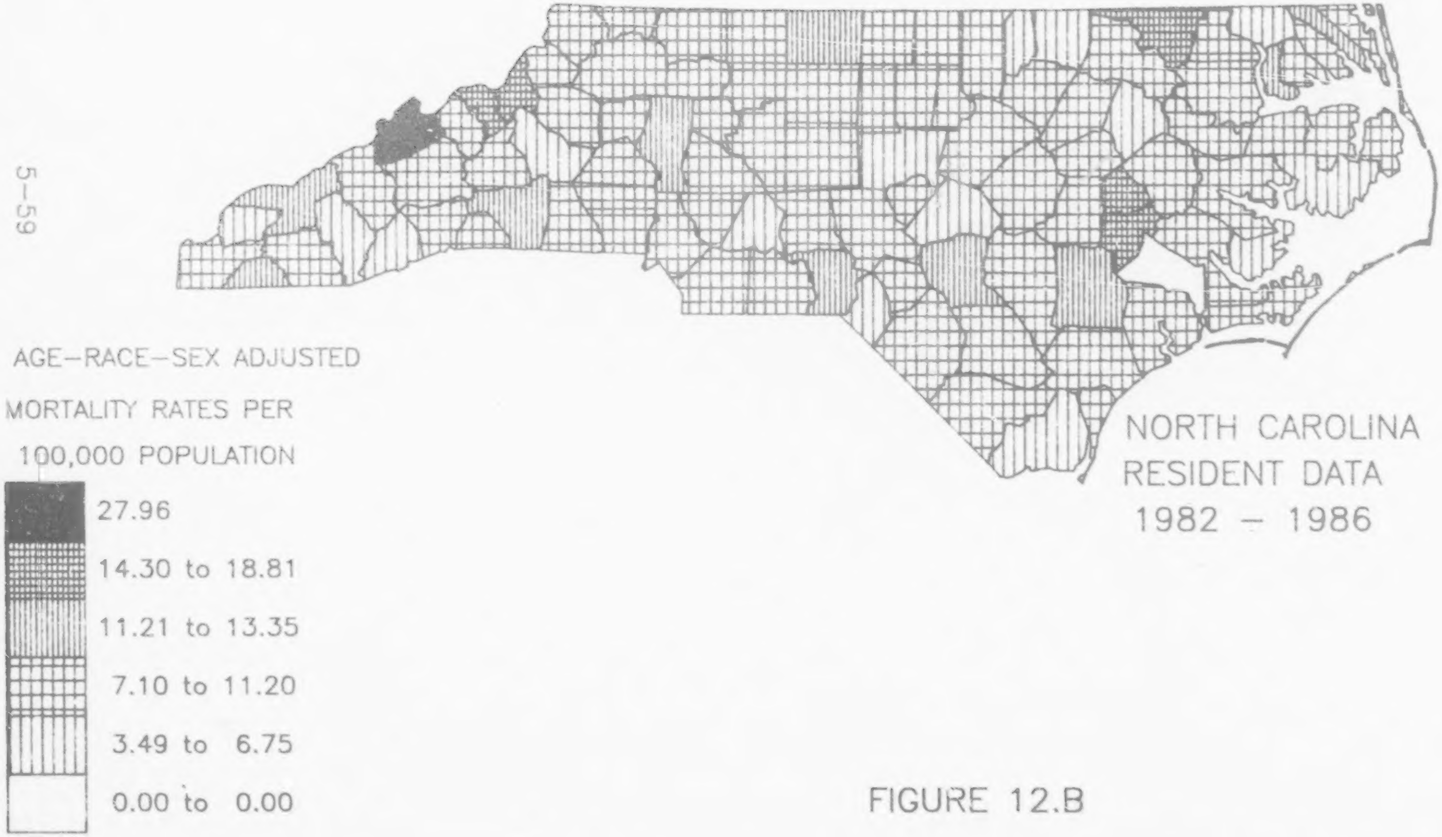

DEATHS PER
100,000 POPULATION
22.71
18.51 to 18.70
11.63 to 16.24
7.33 to 11.30
3.50 to 6.94
0.00 to 0.00
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 12.A


CANCER OF THE PANCREAS

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
27.96
14.30 to 18.81
11.21 to 13.35
7.10 to 11.20
3.49 to 6.75
0.00 to 0.00
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 12.B

TABLE 13

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF TRACHEA, BRONCHUS AND LUNG

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	3206	50.63	14730	47.74	47.74
REGIONS					
DHR I WESTERN	1131	52.21	5080	48.07	45.18
DHR II N. CENTRAL	727	54.53	3206	49.06	46.59
DHR III S. CENTRAL	622	41.81	3035	42.21	49.45
DHR IV EASTERN	726	53.99	3409	51.97	53.99
HSA I WESTERN	548	50.78	2572	48.53	42.58
HSA II PIEDMONT	618	52.58	2777	48.12	46.21
HSA III S. PIEDMONT	583	53.63	2508	47.61	48.05
HSA IV CAPITAL	424	45.59	1968	44.54	49.48
HSA V CARDINAL	451	47.20	2160	46.10	51.55
HSA VI EASTERN	582	52.69	2745	50.73	53.56
COUNTIES					
1 ALAMANCE	66	63.93	267	52.54	44.08
2 ALEXANDER	5	18.64	41	31.07	34.80
3 ALLEGHANY	12	123.43	39	79.62	68.44 *
4 ANSON	22	83.57	74	56.74	53.81
5 ASHE	12	51.61	61	52.62	47.52
6 AVERY	10	66.54	39	52.22	39.44
7 BEAUFORT	39	89.87	127	59.52	55.49
8 BERTIE	13	61.17	65	60.91	58.64
9 BLADEN	14	45.41	84	54.66	51.27
10 BRUNSWICK	34	71.13	130	59.94	53.86
11 BUNCOMBE	83	48.82	457	54.89	45.52
12 BURKE	33	43.42	161	43.03	41.40
13 CABARRUS	53	57.08	223	48.91	44.53
14 CALDWELL	28	39.91	151	43.81	42.42
15 CAMDEN	2	34.12	11	37.85	35.26
16 CARTERET	29	57.52	157	66.58	58.54
17 CASWELL	9	40.01	42	38.26	35.65
18 CATAWBA	56	49.06	258	46.47	47.17
19 CHATHAM	21	58.30	81	46.16	42.01
20 CHEROKEE	11	54.01	54	54.23	59.46
21 CHOWAN	9	67.22	43	66.34	52.01
22 CLAY	2	27.73	20	56.76	30.89
23 CLEVELAND	43	49.87	180	42.44	40.34
24 COLUMBUS	37	70.75	137	52.78	50.57
25 CRAVEN	25	31.16	144	37.41	46.77
26 CUMBERLAND	67	26.28	409	32.26	58.70
27 CURRITUCK	5	37.40	38	59.98	54.40
28 DARE	11	58.80	42	50.83	39.69
29 DAVIDSON	55	46.18	265	45.35	44.51
30 DAVIE	10	35.19	52	37.88	40.36
31 DUPLIN	23	55.17	110	53.02	46.52
32 DURHAM	65	39.19	397	49.54	54.07
33 EDGECOMBE	39	66.02	156	53.98	59.05
34 FORSYTH	138	52.90	596	46.71	46.38
35 FRANKLIN	22	64.37	100	62.23	54.85
36 GASTON	116	67.52	449	53.17	53.65
37 GATES	12	125.56	36	77.57	60.51
38 GRAHAM	5	69.70	25	70.05	51.33
39 GRANVILLE	16	42.44	92	50.62	47.34
40 GREENE	10	60.29	47	57.18	66.86
41 GUILFORD	180	54.56	837	51.55	51.63

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF TRACHEA, BRONCHUS AND LUNG CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	29	51.75	160	57.33	52.46
43 HARNETT	32	49.99	152	48.67	51.47
44 HAYWOOD	34	70.14	138	58.04	43.33
45 HENDERSON	34	50.57	168	51.93	43.44
46 HERTFORD	14	58.22	64	53.66	46.56
47 HOKE	13	56.19	42	37.46	54.04
48 HYDE	5	84.61	18	60.60	52.41
49 IREDELL	47	53.14	203	47.01	42.40
50 JACKSON	8	30.10	52	38.68	38.16
51 JOHNSTON	46	58.83	199	52.98	49.71
52 JONES	2	20.37	19	38.79	33.15
53 LEE	17	41.05	91	46.16	47.28
54 LENOIR	39	64.76	182	60.31	57.99
55 LINCOLN	19	41.05	75	33.63	32.14
56 MCDOWELL	25	69.02	84	46.41	38.90
57 MACON	14	60.64	67	59.37	44.50
58 MADISON	6	34.56	36	41.86	26.76
59 MARTIN	13	48.65	75	56.51	49.78
60 MECKLENBURG	246	54.29	1016	46.81	53.78
61 MITCHELL	13	89.40	43	59.73	36.49
62 MONTGOMERY	10	41.92	51	43.41	38.81
63 MOORE	41	73.20	154	57.14	43.00
64 NASH	35	49.12	175	49.88	49.23
65 NEW HANOVER	54	47.09	324	58.60	60.26
66 NORTHAMPTON	12	53.34	62	55.24	54.12
67 ONSLOW	42	33.56	150	25.00	51.31
68 ORANGE	41	48.38	132	32.47	43.97
69 PAMLICO	11	99.52	51	94.18	79.20
70 PASQUOTANK	24	80.37	91	62.61	61.03
71 PENDER	19	75.39	73	61.09	52.51
72 PERQUIMANS	7	66.45	32	63.95	48.47
73 PERSON	22	71.78	65	43.13	39.88
74 PITT	39	40.03	212	44.48	54.11
75 POLK	5	34.51	51	71.93	50.40
76 RANDOLPH	51	51.47	206	42.88	41.49
77 RICHMOND	25	54.08	119	52.03	47.60
78 ROBESON	43	40.53	225	42.78	55.04
79 ROCKINGHAM	42	49.11	207	48.61	44.42
80 ROWAN	56	53.57	275	53.70	42.96
81 RUTHERFORD	39	68.56	135	48.09	41.71
82 SAMPSON	25	49.68	119	47.43	42.24
83 SCOTLAND	15	44.46	67	39.95	48.83
84 STANLY	21	41.76	116	46.82	42.49
85 STOKES	12	33.69	79	45.11	48.87
86 SURRY	42	68.24	163	53.72	49.28
87 SWAIN	7	63.99	25	46.72	39.58
88 TRANSYLVANIA	17	65.05	70	55.77	54.54
89 TYRRELL	2	48.92	18	86.79	74.53
90 UNION	25	31.31	151	39.49	45.71
91 VANCE	36	92.92	117	61.76	55.82
92 WAKE	125	34.15	639	37.64	49.95
93 WARREN	13	79.01	55	67.15	62.60
94 WASHINGTON	12	82.52	39	53.84	50.08
95 WATAUGA	9	26.10	48	28.29	44.71
96 WAYNE	47	48.24	218	44.47	50.91
97 WILKES	23	37.87	118	39.12	35.91
98 WILSON	32	49.56	203	63.21	65.43
99 YADKIN	13	43.85	63	42.92	35.43
100 YANCEY	14	88.36	51	66.01	42.81

* SEE SECTION I

CANCER OF TRACHEA, BRONCHUS, AND LUNG

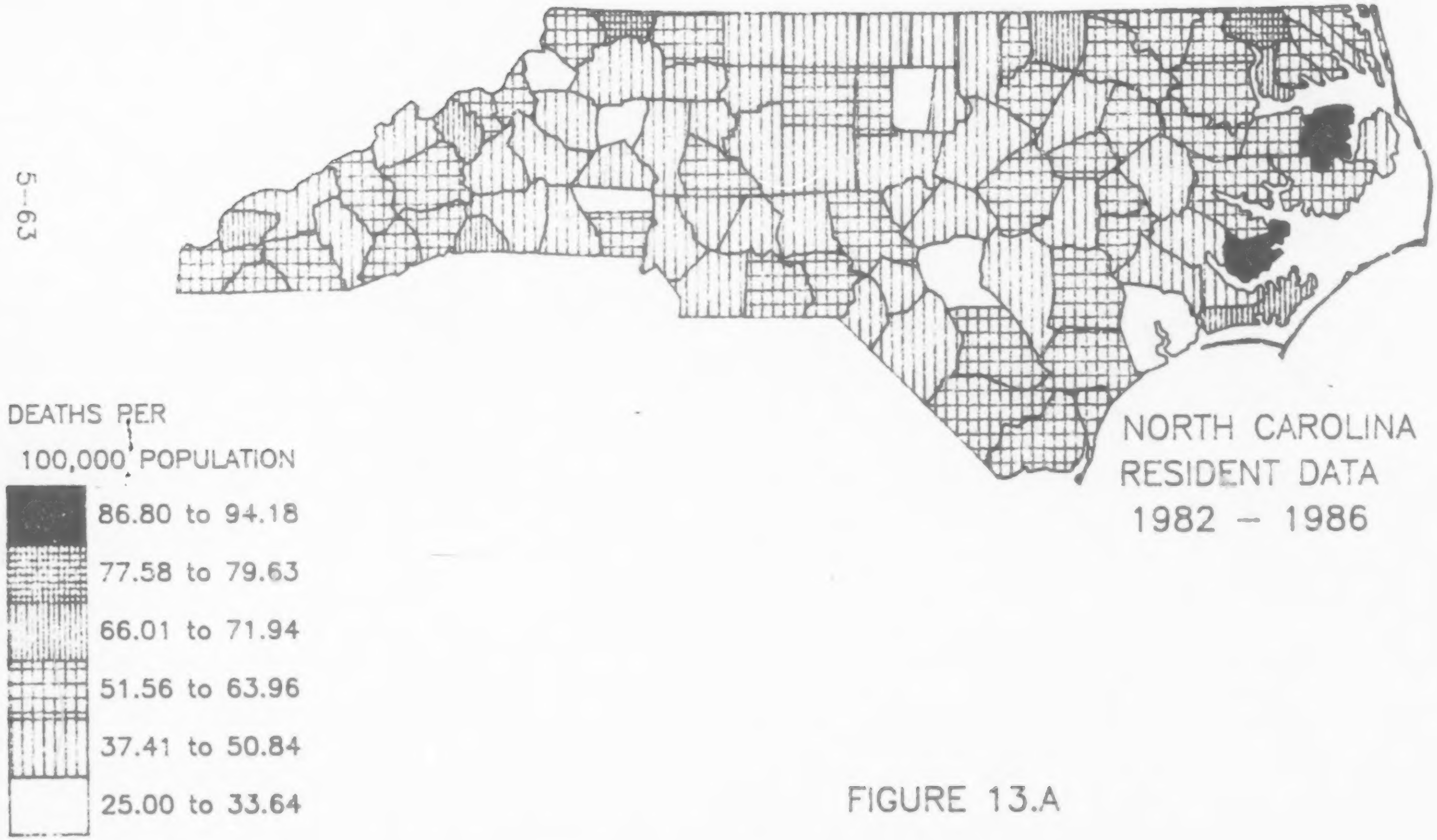
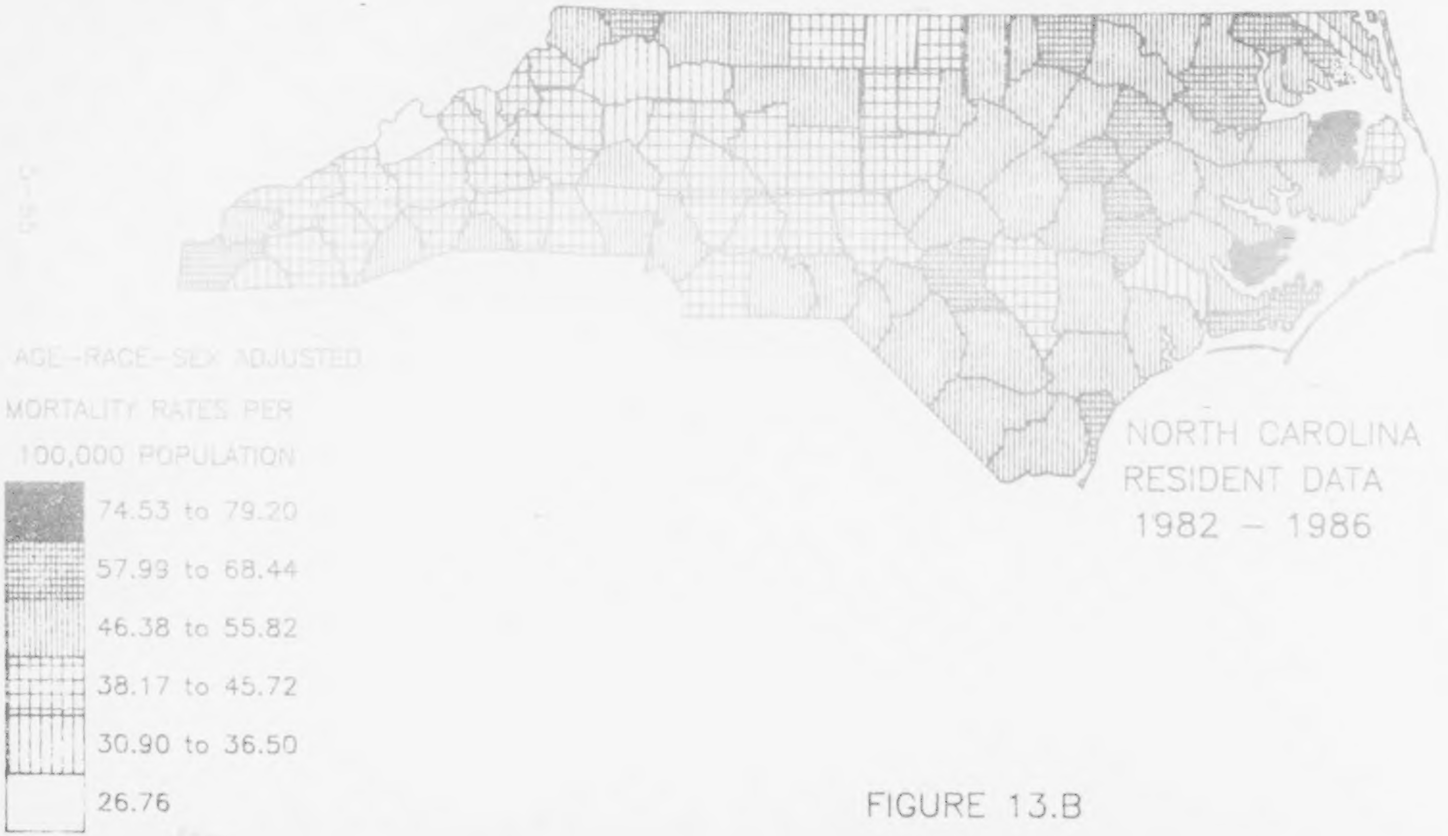

DEATHS PER
100,000 POPULATION
86.80 to 94.18
77.58 to 79.63
66.01 to 71.94
51.56 to 63.96
37.41 to 50.84
25.00 to 33.64
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 13.A



CANCER OF TRACHEA, BRONCHUS AND LUNG

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
74.53 to 79.20
57.99 to 68.44
46.38 to 55.82
38.17 to 45.72
30.90 to 36.50
26.76
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 13.B

TABLE 14

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF FEMALE BREAST

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	1037	31.52	4688	29.48	29.48
REGIONS					
DHR I WESTERN	359	31.75	1651	30.16	28.49
DHR II N. CENTRAL	237	33.82	1062	31.16	29.89
DHR III S. CENTRAL	221	28.79	1019	27.71	31.17
DHR IV EASTERN	220	31.85	956	28.62	28.61
HSA I WESTERN	172	30.62	831	30.33	26.81
HSA II PIEDMONT	211	34.12	941	31.23	30.45
HSA III S. PIEDMONT	187	32.87	820	29.98	29.89
HSA IV CAPITAL	143	29.48	664	29.03	31.19
HSA V CARDINAL	146	29.77	654	27.46	29.90
HSA VI EASTERN	178	31.50	778	28.35	28.26
COUNTIES					
1 ALAMANCE	17	30.96	88	32.86	28.97
2 ALEXANDER	2	14.71	18	27.08	32.11
3 ALLEGHANY	2	39.55	6	23.69	15.84
4 ANSON	3	21.16	29	41.75	36.32
5 ASHE	2	16.61	21	35.24	51.09
6 AVERY	1	13.12	9	23.96	19.59
7 BEAUFORT	8	34.81	36	32.13	27.38
8 BERTIE	3	26.40	23	40.77	35.12
9 BLADEN	4	24.84	19	23.90	23.45
10 BRUNSWICK	2	8.14	32	28.96	27.80
11 BUNCOMBE	26	28.85	156	35.58	30.18
12 BURKE	17	43.35	46	23.98	20.99
13 CABARRUS	21	43.18	91	38.37	33.99
14 CALDWELL	5	13.85	40	22.70	26.60
15 CAMDEN	4	132.49	9	60.50	51.03
16 CARTERET	10	39.22	35	29.53	30.66
17 CASWELL	0	0.00	12	21.61	23.56
18 CATAWBA	18	30.32	82	28.58	28.62
19 CHATHAM	3	16.20	24	26.85	25.56
20 CHEROKEE	4	37.50	15	28.97	19.89
21 CHOWAN	4	55.19	18	51.93	47.45
22 CLAY	1	27.39	6	33.84	22.06
23 CLEVELAND	18	39.78	65	29.45	27.52
24 COLUMBUS	10	36.33	32	23.65	24.16
25 CRAVEN	10	25.33	50	26.63	32.10
26 CUMBERLAND	32	25.92	123	20.28	29.45
27 CURRITUCK	3	45.70	8	25.90	25.46
28 DARE	6	63.44	10	24.09	21.86
29 DAVIDSON	19	30.81	86	28.65	30.79
30 DAVIE	4	27.58	20	28.73	35.99
31 DUPLIN	6	27.34	35	32.33	29.67
32 DURHAM	32	35.85	137	32.04	32.26
33 EDGECOMBE	9	28.11	40	25.85	27.13
34 FORSYTH	41	29.50	205	30.40	29.31
35 FRANKLIN	3	16.73	22	26.35	21.03
36 GASTON	12	13.26	100	22.66	22.57
37 GATES	0	0.00	6	25.86	14.25
38 GRAHAM	0	0.00	2	11.12	8.91
39 GRANVILLE	3	15.70	24	26.30	22.00
40 GREENE	2	23.36	7	16.64	18.48
41 GUILFORD	70	39.96	298	34.81	34.51

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF FEMALE BREAST CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	11	37.35	46	31.68	25.51
43 HARNETT	11	33.23	37	23.11	24.31
44 HAYWOOD	7	27.73	44	35.78	38.64
45 HENDERSON	14	39.67	70	41.50	31.49
46 HERTFORD	6	47.41	18	28.98	26.51
47 HOKE	2	16.71	11	19.21	21.63
48 HYDE	1	32.82	7	46.04	38.00
49 IREDELL	14	30.38	70	31.33	29.40
50 JACKSON	5	36.31	19	27.54	29.25
51 JOHNSTON	14	34.26	49	25.13	23.12
52 JONES	2	37.65	9	34.42	25.89
53 LEE	4	18.32	31	30.08	30.08
54 LENOIR	12	37.34	53	33.21	31.25
55 LINCOLN	7	29.43	27	23.70	28.49
56 MCDOWELL	3	15.97	14	15.01	11.74
57 MACON	4	33.24	19	32.59	19.06
58 MADISON	2	22.56	12	27.44	18.98
59 MARTIN	4	28.09	22	31.44	25.83
60 MECKLENBURG	88	36.98	345	30.51	33.25
61 MITCHELL	2	26.64	9	24.37	16.86
62 MONTGOMERY	5	40.88	27	45.12	41.37
63 MOORE	12	41.07	58	41.57	33.91
64 NASH	13	34.44	45	24.42	22.52
65 NEW HANOVER	23	38.01	90	31.06	31.74
66 NORTHAMPTON	5	43.38	22	38.61	39.72
67 ONSLOW	6	11.53	29	11.78	19.61
68 ORANGE	9	20.20	53	24.95	33.81
69 PAMLICO	1	17.22	3	10.64	9.48
70 PASQUOTANK	5	31.94	25	33.09	31.17
71 PENDER	7	53.88	24	39.32	36.07
72 PERQUIMANS	1	17.92	9	34.33	29.48
73 PERSON	5	31.13	18	23.02	20.77
74 PITT	17	32.71	84	33.30	39.68
75 POLK	5	65.28	14	37.58	25.65
76 RANDOLPH	18	35.09	74	29.97	33.46
77 RICHMOND	10	41.17	40	33.54	31.13
78 ROBESON	9	16.00	57	20.69	25.41
79 ROCKINGHAM	18	40.13	70	31.57	29.32
80 ROWAN	14	25.71	84	31.72	27.35
81 RUTHERFORD	13	43.38	50	34.07	25.80
82 SAMPSON	8	30.33	41	31.47	28.93
83 SCOTLAND	8	44.98	34	38.79	42.89
84 STANLY	12	45.66	48	37.35	34.73
85 STOKES	7	38.20	25	27.94	25.59
86 SURRY	9	28.02	38	24.15	25.32
87 SWAIN	1	17.34	11	39.45	35.36
88 TRANSYLVANIA	6	44.70	28	43.81	31.31
89 TYRRELL	0	0.00	4	36.46	36.75
90 UNION	19	46.14	55	28.10	31.90
91 VANCE	10	48.93	42	42.40	38.31
92 WAKE	55	29.29	249	23.79	35.09
93 WARREN	5	57.56	15	35.12	29.49
94 WASHINGTON	1	13.16	9	24.06	22.88
95 WATAUGA	6	33.92	26	30.03	27.84
96 WAYNE	12	23.68	62	24.55	25.17
97 WILKES	4	12.82	31	20.14	16.77
98 WILSON	16	46.34	54	31.74	31.05
99 YADKIN	8	52.74	25	33.48	24.49
100 YANCEY	4	48.88	18	45.44	70.53

* SEE SECTION I

CANCER OF THE FEMALE BREAST

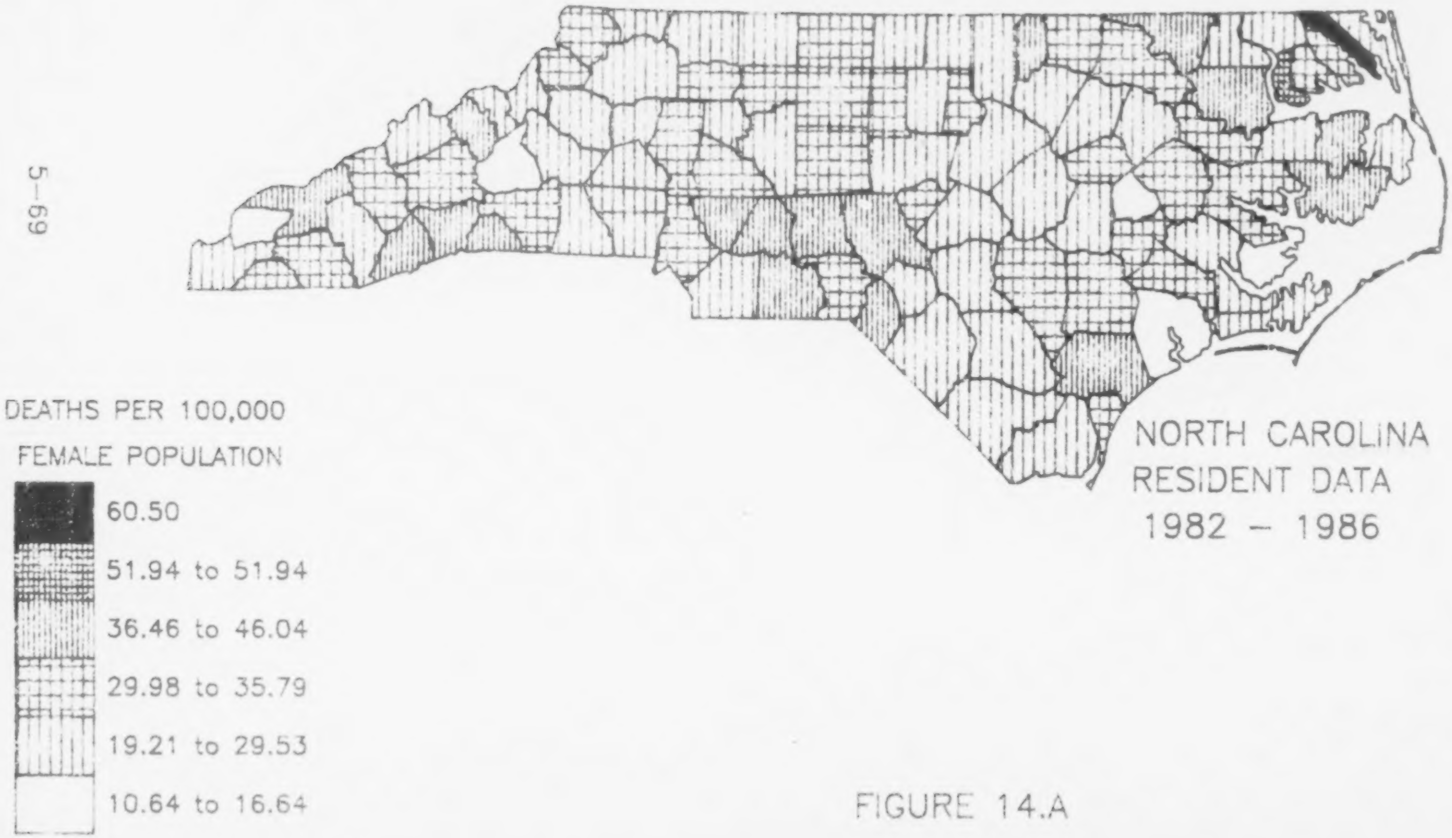
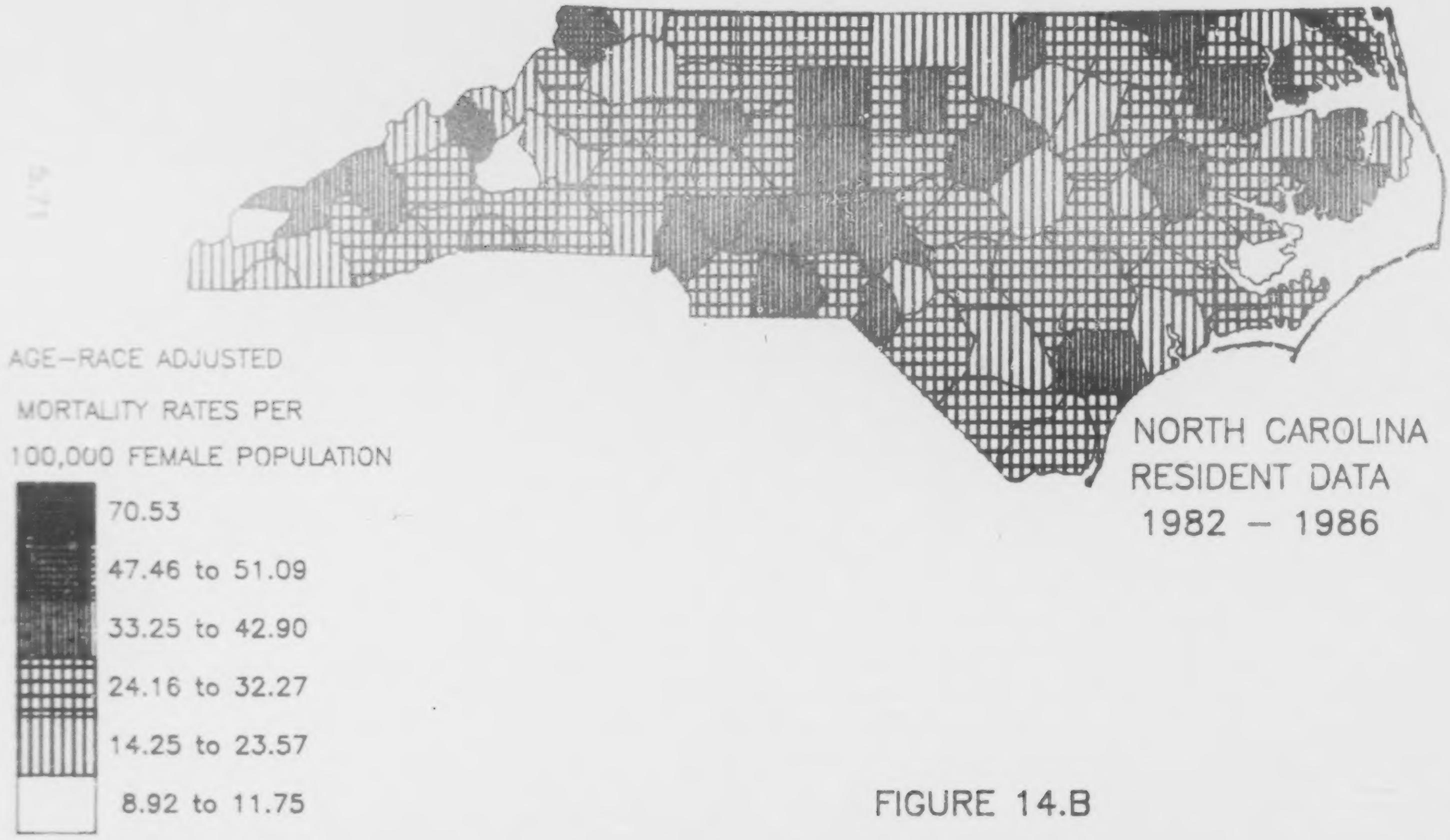

DEATHS PER 100,000
FEMALE POPULATION
60.50
51.94 to 51.94
36.46 to 46.04
29.98 to 35.79
19.21 to 29.53
10.64 to 16.64
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 14.A

CANCER OF THE FEMALE BREAST


AGE–RACE ADJUSTED
MORTALITY RATES PER
100,000 FEMALE POPULATION
70.53
47.46 to 51.09
33.25 to 42.90
24.16 to 32.27
14.25 to 23.57
8.92 to 11.75

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 14.B

TABLE 15

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF CERVIX UTERI

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	137	4.16	756	4.75	4.75
REGIONS					
DHR I WESTERN	43	3.80	233	4.25	4.59
DHR II N. CENTRAL	23	3.28	164	4.81	4.71
DHR III S. CENTRAL	26	3.38	161	4.37	4.43
DHR IV EASTERN	45	6.51	198	5.92	5.20
HSA I WESTERN	30	5.34	134	4.89	5.51
HSA II PIEDMONT	19	3.07	140	4.64	4.71
HSA III S. PIEDMONT	13	2.28	99	3.61	3.87
HSA IV CAPITAL	15	3.09	87	3.80	3.73
HSA V CARDINAL	23	4.68	125	5.24	5.09
HSA VI EASTERN	37	6.54	171	6.23	5.38
COUNTIES					
1 ALAMANCE	0	0.00	16	5.97	5.50
2 ALEXANDER	0	0.00	0	0.00	0.00
3 ALLEGHANY	0	0.00	0	0.00	0.00
4 ANSON	0	0.00	5	7.19	4.45
5 ASHE	0	0.00	0	0.00	0.00
6 AVERY	1	13.12	2	5.32	4.76
7 BEAUFORT	1	4.35	8	7.14	5.83
8 BERTIE	0	0.00	4	7.09	4.82
9 BLADEN	1	6.21	4	5.03	4.54
10 BRUNSWICK	0	0.00	2	1.81	1.71
11 BUNCOMBE	5	5.54	26	5.93	5.14
12 BURKE	1	2.55	9	4.69	7.22
13 CABARRUS	4	8.22	10	4.21	4.31
14 CALDWELL	3	8.31	11	6.24	10.29
15 CAMDEN	0	0.00	2	13.44	13.42
16 CARTERET	1	3.92	7	5.90	4.94
17 CASWELL	0	0.00	4	7.20	6.54
18 CATAWBA	4	6.73	18	6.27	8.24
19 CHATHAM	0	0.00	0	0.00	0.00
20 CHEROKEE	0	0.00	1	1.93	1.52
21 CHOWAN	1	13.79	1	2.88	1.33
22 CLAY	1	27.39	1	5.64	4.74
23 CLEVELAND	4	8.84	9	4.07	4.16
24 COLUMBUS	3	10.90	6	4.43	3.67
25 CRAVEN	3	7.59	10	5.32	5.43
26 CUMBERLAND	4	3.24	21	3.46	4.53
27 CURRITUCK	0	0.00	0	0.00	0.00
28 DARE	0	0.00	0	0.00	0.00
29 DAVIDSON	5	8.10	15	4.99	5.64
30 DAVIE	0	0.00	2	2.87	4.89
31 DUPLIN	2	9.11	8	7.39	6.27
32 DURHAM	2	2.24	18	4.20	4.10
33 EDGECOMBE	0	0.00	10	6.46	4.94
34 FORSYTH	2	1.43	27	4.00	3.85
35 FRANKLIN	1	5.57	2	2.39	1.22
36 GASTON	4	4.42	24	5.44	5.19
37 GATES	0	0.00	0	0.00	0.00
38 GRAHAM	0	0.00	1	5.56	4.65
39 GRANVILLE	2	10.47	9	9.86	5.50
40 GREENE	0	0.00	3	7.13	5.49
41 GUILFORD	6	3.42	37	4.32	4.30

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF CERVIX UTERI CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	2	6.79	13	8.95	7.02
43 HARNETT	5	15.10	10	6.24	6.47
44 HAYWOOD	0	0.00	4	3.25	2.30
45 HENDERSON	3	8.50	8	4.74	3.11
46 HERTFORD	2	15.80	8	12.88	8.77
47 HOKE	0	0.00	1	1.74	3.15
48 HYDE	1	32.82	1	6.57	4.08
49 IREDELL	1	2.17	10	4.47	4.59
50 JACKSON	0	0.00	2	2.89	2.69
51 JOHNSTON	2	4.89	9	4.61	4.66
52 JONES	0	0.00	1	3.82	1.77
53 LEE	0	0.00	6	5.82	5.96
54 LENOIR	2	6.22	7	4.38	3.26
55 LINCOLN	0	0.00	3	2.63	4.00
56 MCDOWELL	1	5.32	4	4.28	3.31
57 MACON	0	0.00	2	3.43	1.78
58 MADISON	0	0.00	2	4.57	3.78
59 MARTIN	1	7.02	6	8.57	5.65
60 MECKLENBURG	3	1.26	34	3.00	3.04
61 MITCHELL	1	13.32	4	10.83	7.21
62 MONTGOMERY	0	0.00	7	11.70	11.10
63 MOORE	1	3.42	13	9.31	8.11
64 NASH	3	7.94	11	5.97	5.14
65 NEW HANOVER	5	8.26	17	5.86	5.88
66 NORTHAMPTON	1	8.67	10	17.55	9.57
67 ONSLOW	2	3.84	4	1.62	2.86
68 ORANGE	3	6.73	5	2.35	3.26
69 PAMLICO	0	0.00	1	3.54	2.07
70 PASQUOTANK	0	0.00	6	7.94	7.22
71 PENDER	0	0.00	2	3.27	1.66
72 PERQUIMANS	0	0.00	1	3.81	1.59
73 PERSON	1	6.22	4	5.11	4.38
74 PITT	4	7.69	18	7.13	5.88
75 POLK	0	0.00	1	2.68	2.30
76 RANDOLPH	0	0.00	6	2.43	2.08
77 RICHMOND	1	4.11	12	10.06	8.84
78 ROBESON	0	0.00	9	3.26	3.31
79 ROCKINGHAM	2	4.45	18	8.11	7.83
80 ROWAN	0	0.00	10	3.77	3.70
81 RUTHERFORD	3	10.01	10	6.81	6.34
82 SAMPSON	3	11.37	11	8.44	5.90
83 SCOTLAND	0	0.00	5	5.70	4.43
84 STANLY	1	3.80	3	2.33	2.55
85 STOKES	1	5.45	3	3.35	2.82
86 SURRY	3	9.34	11	6.99	7.83
87 SWAIN	0	0.00	2	7.17	6.78
88 TRANSYLVANIA	0	0.00	3	4.69	8.22
89 TYRRELL	1	45.80	1	9.11	12.14
90 UNION	0	0.00	5	2.55	2.81
91 VANCE	0	0.00	6	6.05	5.11
92 WAKE	4	2.13	25	2.89	3.35
93 WARREN	0	0.00	3	7.02	6.16
94 WASHINGTON	0	0.00	1	2.67	1.73
95 WATAUGA	0	0.00	1	1.15	16.87
96 WAYNE	4	7.89	11	4.35	3.66
97 WILKES	2	6.41	12	7.79	8.12
98 WILSON	6	17.37	18	10.58	9.80
99 YADKIN	0	0.00	1	1.33	0.95
100 YANCEY	1	12.22	1	2.52	1.99

* SEE SECTION I

CANCER OF THE CERVIX UTERI

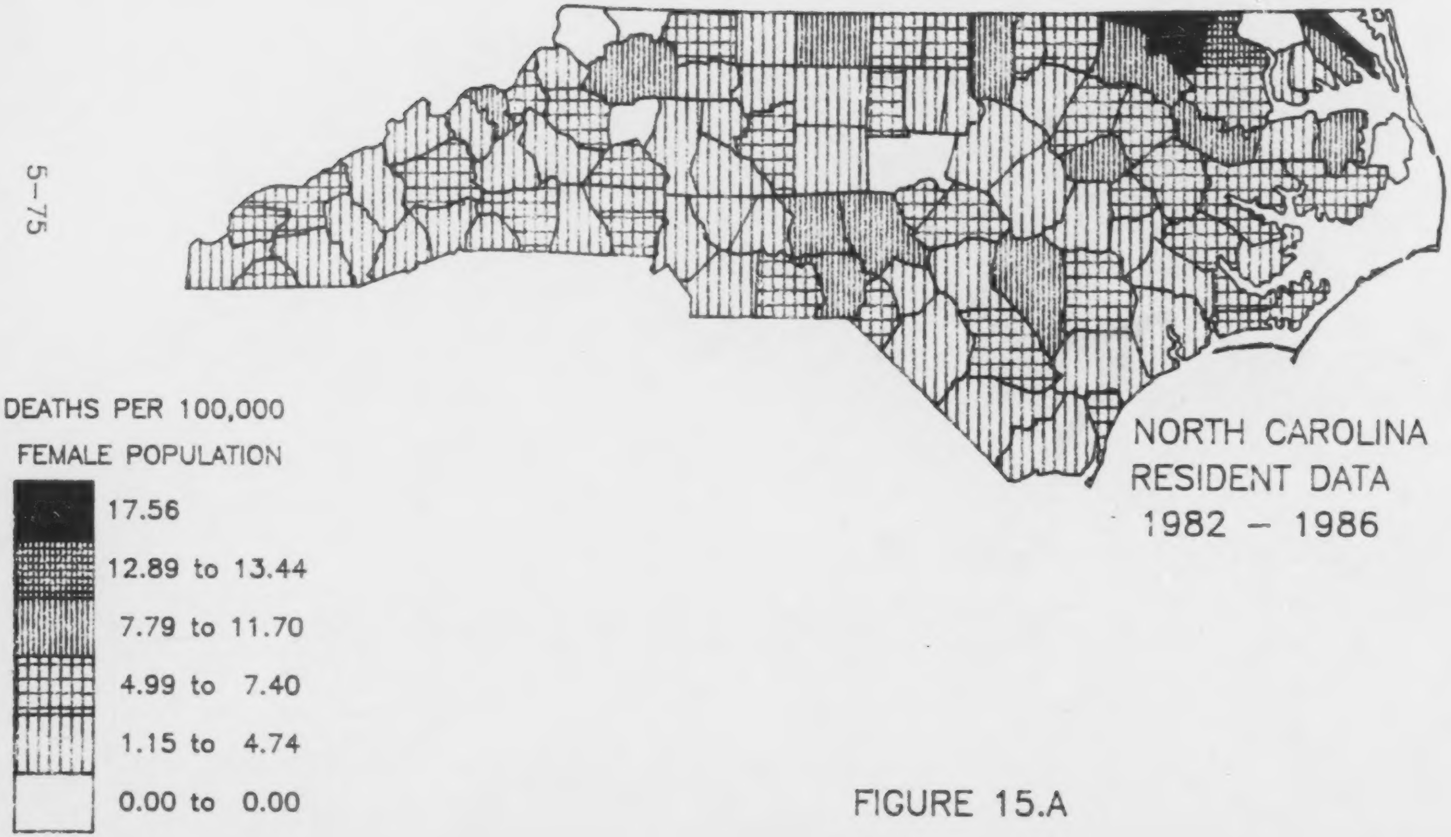

DEATHS PER 100,000
FEMALE POPULATION
17.56
12.89 to 13.44
7.79 to 11.70
4.99 to 7.40
1.15 to 4.74
0.00 to 0.00
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 15.A

CANCER OF THE CERVIX UTERI

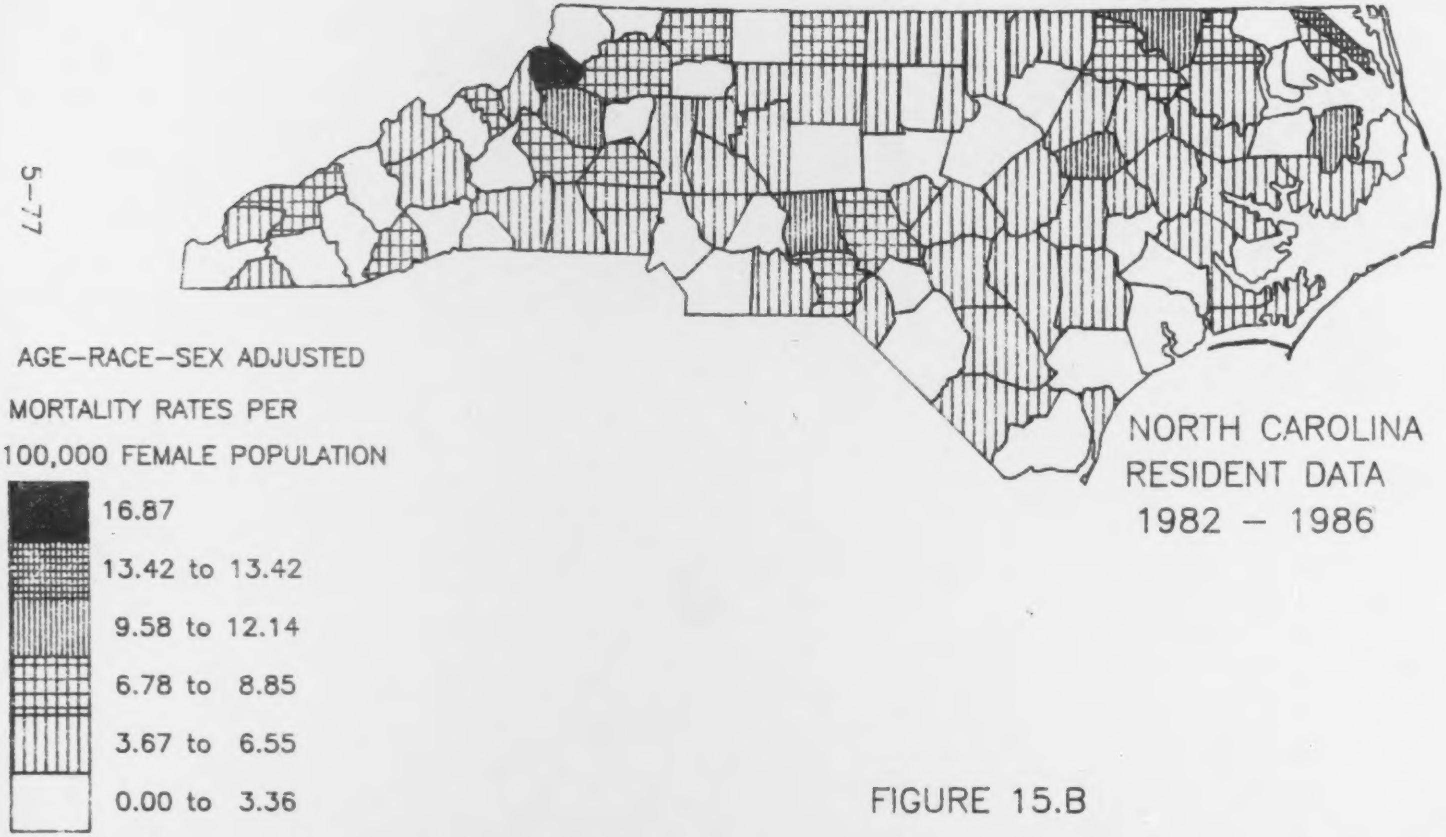

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 FEMALE POPULATION
16.87
13.42 to 13.42
9.58 to 12.14
6.78 to 8.85
3.67 to 6.55
0.00 to 3.36
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 15.B

TABLE 16

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF OVARY AND OTHER UTERINE ADNEXA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	281	8.54	1328	8.35	8.35
REGIONS					
DHR I WESTERN	104	9.20	485	8.85	8.19
DHR II N. CENTRAL	70	9.99	341	10.00	9.47
DHR III S. CENTRAL	34	4.42	220	5.98	6.83
DHR IV EASTERN	73	10.57	282	8.44	8.65
HSA I WESTERN	63	11.21	281	10.25	9.20
HSA II PIEDMONT	67	10.83	314	10.42	9.85
HSA III S. PIEDMONT	41	7.20	204	7.45	7.38
HSA IV CAPITAL	18	3.71	137	5.99	6.52
HSA V CARDINAL	36	7.34	170	7.13	7.88
HSA VI EASTERN	56	9.91	222	8.09	8.31
COUNTIES					
1 ALAMANCE	8	14.57	22	8.21	7.00
2 ALEXANDER	1	7.35	4	6.01	10.31
3 ALLEGHANY	2	39.55	4	15.79	10.73
4 ANSON	1	7.05	4	5.75	4.69
5 ASHE	1	8.30	5	8.39	31.86
6 AVERY	0	0.00	3	7.98	6.22
7 BEAUFORT	3	13.05	15	13.38	11.38
8 BERTIE	3	26.40	7	12.40	7.76
9 BLADEN	0	0.00	6	7.54	9.19
10 BRUNSWICK	6	24.44	18	16.29	17.00
11 BUNCOMBE	6	6.65	61	13.91	12.35
12 BURKE	6	15.30	16	8.34	10.58
13 CABARRUS	6	12.33	22	9.27	8.95
14 CALDWELL	3	8.31	17	9.64	11.47
15 CAMDEN	0	0.00	0	0.00	0.00
16 CARTERET	3	11.76	14	11.81	11.68
17 CASWELL	1	8.70	8	14.40	14.22
18 CATAWBA	6	10.10	28	9.76	9.07
19 CHATHAM	1	5.40	6	6.71	6.43
20 CHEROKEE	0	0.00	5	9.65	6.22
21 CHOWAN	1	13.79	4	11.54	8.50
22 CLAY	0	0.00	1	5.64	3.29
23 CLEVELAND	8	17.68	20	9.06	8.22
24 COLUMBUS	5	18.16	7	5.17	5.04
25 CRAVEN	2	5.06	12	6.39	8.26
26 CUMBERLAND	5	4.05	24	3.95	6.53
27 CURRITUCK	0	0.00	1	3.23	3.16
28 DARE	0	0.00	0	0.00	0.00
29 DAVIDSON	4	6.48	34	11.32	10.78
30 DAVIE	2	13.79	10	14.36	15.21
31 DUPLIN	2	9.11	8	7.39	6.98
32 DURHAM	5	5.60	24	5.61	6.22
33 EDGECOMBE	4	12.49	17	10.98	11.53
34 FORSYTH	17	12.23	70	10.38	10.25
35 FRANKLIN	2	11.15	7	8.38	6.89
36 GASTON	5	5.52	29	6.57	6.12
37 GATES	0	0.00	1	4.31	1.68
38 GRAHAM	0	0.00	2	11.12	8.25
39 GRANVILLE	0	0.00	4	4.38	3.47
40 GREENE	0	0.00	0	0.00	0.00
41 GUILFORD	17	9.70	86	10.04	10.03

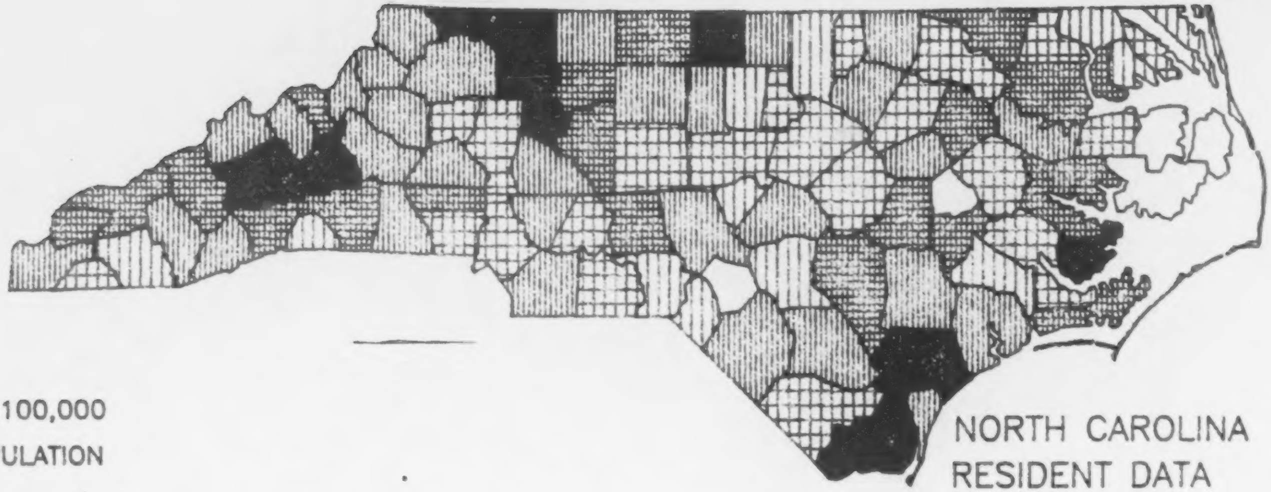
* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF OVARY AND OTHER UTERINE ADNEXA CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	3	10.18	10	6.88	6.18
43 HARNETT	3	9.06	13	8.12	8.20
44 HAYWOOD	5	19.81	16	13.01	8.28
45 HENDERSON	5	14.16	22	13.04	8.11
46 HERTFORD	0	0.00	4	6.44	3.68
47 HOKE	0	0.00	0	0.00	0.00
48 HYDE	0	0.00	0	0.00	0.00
49 IREDELL	5	10.85	14	6.26	5.29
50 JACKSON	2	14.52	6	8.69	8.19
51 JOHNSTON	0	0.00	12	6.15	5.74
52 JONES	0	0.00	1	3.82	4.96
53 LEE	0	0.00	2	1.94	1.95
54 LENOIR	5	15.56	17	10.65	10.53
55 LINCOLN	2	8.40	12	10.53	9.65
56 MCDOWELL	4	21.29	14	15.01	11.94
57 MACON	1	8.31	2	3.43	2.15
58 MADISON	0	0.00	4	9.14	7.52
59 MARTIN	3	21.06	7	10.00	11.50
60 MECKLENBURG	12	5.04	79	6.98	7.85
61 MITCHELL	0	0.00	4	10.83	7.16
62 MONTGOMERY	2	16.35	7	11.70	10.59
63 MOORE	2	6.84	14	10.03	8.06
64 NASH	4	10.59	9	4.88	5.14
65 NEW HANOVER	6	9.91	26	8.97	9.24
66 NORTHAMPTON	1	8.67	6	10.53	10.31
67 ONSLOW	2	3.84	20	8.12	14.58
68 ORANGE	2	4.48	9	4.23	5.96
69 PAMLICO	2	34.45	4	14.18	10.88
70 PASQUOTANK	2	12.77	5	6.61	6.73
71 PENDER	0	0.00	9	14.74	15.51
72 PERQUIMANS	0	0.00	1	3.81	3.28
73 PERSON	0	0.00	7	8.95	9.15
74 PITT	3	5.77	17	6.74	7.85
75 POLK	0	0.00	1	2.68	2.54
76 RANDOLPH	3	5.84	17	6.88	8.88
77 RICHMOND	0	0.00	5	4.19	3.68
78 ROBESON	6	10.66	20	7.26	8.80
79 ROCKINGHAM	6	13.37	25	11.27	9.98
80 ROWAN	6	11.01	21	7.93	6.43
81 RUTHERFORD	4	13.34	16	10.90	8.87
82 SAMPSON	0	0.00	15	11.51	10.03
83 SCOTLAND	0	0.00	2	2.28	2.39
84 STANLY	0	0.00	9	7.00	6.32
85 STOKES	0	0.00	7	7.82	9.16
86 SURRY	7	21.79	24	15.25	12.86
87 SWAIN	0	0.00	3	10.76	7.40
88 TRANSYLVANIA	1	7.45	5	7.82	5.45
89 TYRRELL	0	0.00	0	0.00	0.00
90 UNION	5	12.14	18	9.19	10.10
91 VANCE	0	0.00	5	5.04	3.80
92 WAKE	7	3.72	57	6.59	7.94
93 WARREN	1	11.51	4	9.36	8.09
94 WASHINGTON	0	0.00	2	5.34	3.30
95 WATAUGA	2	11.30	7	8.08	7.51
96 WAYNE	6	11.84	26	10.29	11.12
97 WILKES	6	19.23	12	7.79	6.50
98 WILSON	7	20.27	14	8.23	7.93
99 YADKIN	2	13.18	11	14.73	14.86
100 YANCEY	0	0.00	3	7.57	5.43

* SEE SECTION I

CANCER OF OVARY AND OTHER UTERINE ADNEXA



NORTH CAROLINA
RESIDENT DATA
1982 – 1986

DEATHS PER 100,000
FEMALE POPULATION
13.91 to 16.30
10.29 to 13.39
7.26 to 10.04
4.89 to 7.00
1.94 to 4.39
0.00 to 0.00

FIGURE 16.A

CANCER OF OVARY AND OTHER UTERINE ADNEXA

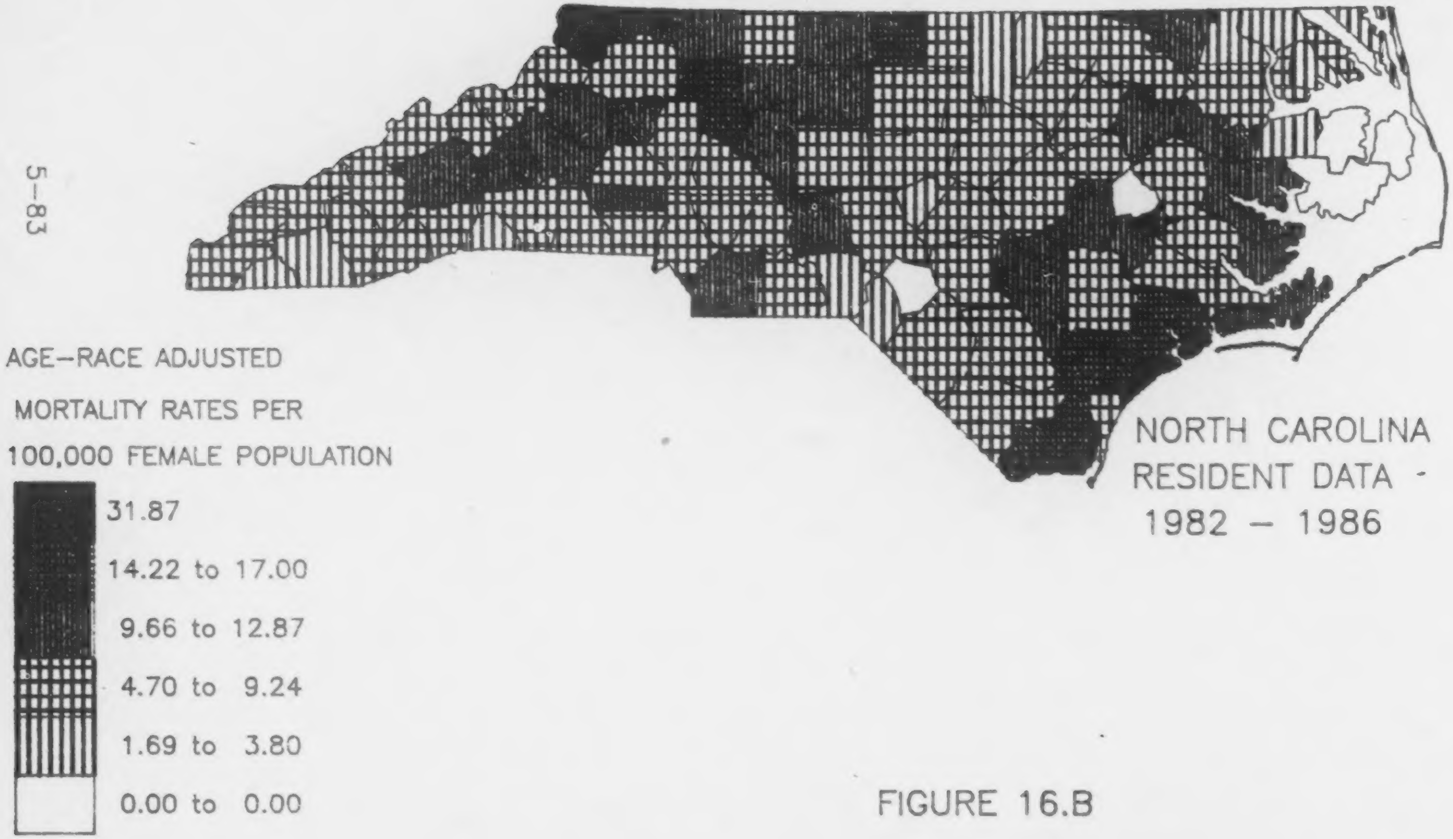

AGE-RACE ADJUSTED
MORTALITY RATES PER
100,000 FEMALE POPULATION
31.87
14.22 to 17.00
9.66 to 12.87
4.70 to 9.24
1.69 to 3.80
0.00 to 0.00
NORTH CAROLINA
RESIDENT DATA -
1982 - 1986

FIGURE 16.B

TABLE 17

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CANCER OF PROSTATE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	766	25.17	3371	22.54	22.54
REGIONS					
DHR I WESTERN	262	25.29	1130	22.19	22.19
DHR II N. CENTRAL	165	26.08	730	23.34	22.38
DHR III S. CENTRAL	156	21.66	706	20.09	22.49
DHR IV EASTERN	183	27.98	805	25.00	22.83
HSA I WESTERN	129	24.93	593	23.16	21.19
HSA II PIEDMONT	143	25.67	635	23.03	23.13
HSA III S. PIEDMONT	133	25.65	537	21.20	22.97
HSA IV CAPITAL	92	20.67	431	20.22	20.92
HSA V CARDINAL	119	25.59	512	22.22	23.05
HSA VI EASTERN	150	27.80	663	24.85	22.70
COUNTIES					
1 ALAMANCE	9	18.61	57	23.70	21.73
2 ALEXANDER	1	7.56	13	19.85	24.75
3 ALLEGHANY	1	21.43	5	21.13	11.86
4 ANSON	4	32.91	17	27.88	20.35
5 ASHE	6	53.50	21	37.27	21.07
6 AVERY	1	13.49	11	29.63	21.63
7 BEAUFORT	2	9.79	36	35.53	25.26
8 BERTIE	4	40.44	22	43.73	26.78
9 BLADEN	1	6.78	16	21.56	17.36
10 BRUNSWICK	3	12.90	17	15.97	14.82
11 BUNCOMBE	20	25.03	105	26.64	22.64
12 BURKE	7	19.03	26	14.26	17.98
13 CABARRUS	8	18.09	26	11.88	11.13
14 CALDWELL	6	17.61	27	16.02	19.83
15 CAMDEN	0	0.00	5	35.25	26.07
16 CARTERET	8	32.10	29	24.72	27.52
17 CASWELL	1	9.09	13	23.96	19.95
18 CATAWBA	9	16.42	42	15.65	21.69
19 CHATHAM	7	39.98	25	29.04	23.27
20 CHEROKEE	1	10.31	13	27.20	14.76
21 CHOWAN	6	97.71	18	59.69	32.62
22 CLAY	2	56.17	3	17.14	7.98
23 CLEVELAND	9	21.96	44	21.63	20.17
24 COLUMBUS	9	36.32	35	28.16	24.65
25 CRAVEN	5	12.27	26	13.18	16.72
26 CUMBERLAND	26	19.76	80	12.09	25.25
27 CURRITUCK	1	14.70	11	33.88	32.22
28 DARE	0	0.00	10	24.31	16.42
29 DAVIDSON	12	20.89	52	18.30	21.66
30 DAVIE	3	21.55	13	19.20	22.11
31 DUPLIN	10	50.65	37	37.28	29.61
32 DURHAM	24	31.33	89	23.81	21.81
33 EDGECOMBE	10	36.95	42	31.28	27.96
34 FORSYTH	35	28.70	147	24.43	23.90
35 FRANKLIN	3	18.46	16	20.72	11.53
36 GASTON	14	17.20	72	17.85	20.90
37 GATES	1	21.13	7	30.15	15.09
38 GRAHAM	0	0.00	3	16.93	7.98
39 GRANVILLE	5	26.88	18	19.89	12.49
40 GREENE	0	0.00	8	19.93	14.98
41 GUILFORD	34	21.97	194	25.27	25.35

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CANCER OF PROSTATE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	11	41.37	42	31.37	18.94
43 HARNETT	9	29.11	44	28.91	30.72
44 HAYWOOD	6	25.82	23	20.03	14.19
45 HENDERSON	15	46.97	52	33.59	28.53
46 HERTFORD	5	43.89	29	50.74	25.96
47 HOKE	1	8.95	8	14.58	19.73
48 HYDE	3	104.78	6	41.38	31.85
49 IREDELL	13	30.69	48	23.03	20.98
50 JACKSON	1	7.80	14	21.39	17.63
51 JOHNSTON	8	21.43	45	24.90	24.37
52 JONES	2	44.42	12	52.55	33.34
53 LEE	2	10.21	17	18.06	17.91
54 LENOIR	8	28.47	39	27.42	22.89
55 LINCOLN	4	17.78	19	17.41	17.48
56 MCDOWELL	1	5.73	13	14.82	10.65
57 MACON	6	54.28	31	56.82	23.26
58 MADISON	3	35.30	17	40.22	22.86
59 MARTIN	3	24.03	17	27.09	18.75
60 MECKLENBURG	54	25.09	228	21.93	26.66
61 MITCHELL	1	14.21	10	28.52	14.67
62 MONTGOMERY	3	25.81	13	22.55	19.48
63 MOORE	10	37.32	51	39.23	25.27
64 NASH	11	32.83	39	23.41	22.60
65 NEW HANOVER	15	27.69	69	26.21	27.46
66 NORTHAMPTON	4	36.45	13	23.52	12.92
67 ONSLOW	10	13.67	31	8.76	28.89
68 ORANGE	11	27.37	37	19.06	22.95
69 PAMLICO	0	0.00	2	7.70	5.85
70 PASQUOTANK	7	49.26	24	34.38	27.66
71 PENDER	6	49.14	21	35.92	21.78
72 PERQUIMANS	2	40.35	8	33.57	15.46
73 PERSON	4	27.41	15	20.68	18.36
74 PITT	10	22.00	50	22.28	22.41
75 POLK	5	73.23	12	35.66	14.58
76 RANDOLPH	9	18.83	42	17.99	20.89
77 RICHMOND	5	22.79	26	23.75	18.78
78 ROBESON	17	34.09	71	28.34	24.67
79 ROCKINGHAM	23	56.55	50	24.49	22.31
80 ROWAN	24	47.92	77	31.12	24.68
81 RUTHERFORD	8	29.72	31	23.14	20.21
82 SAMPSON	7	29.22	28	23.22	17.48
83 SCOTLAND	3	18.80	16	19.98	20.58
84 STANLY	5	20.83	32	26.84	27.04
85 STOKES	5	28.92	19	22.18	28.29
86 SURRY	9	30.57	30	20.53	22.26
87 SWAIN	2	38.65	9	35.12	24.34
88 TRANSYLVANIA	5	39.33	11	17.85	11.25
89 TYRRELL	1	52.49	3	30.70	17.27
90 UNION	11	28.45	35	18.74	21.02
91 VANCE	8	43.70	30	33.19	23.07
92 WAKE	18	10.09	123	14.76	21.04
93 WARREN	2	25.75	16	40.81	17.07
94 WASHINGTON	4	57.59	14	39.97	27.77
95 WATAUGA	4	23.81	11	13.24	9.87
96 WAYNE	18	38.51	51	21.46	22.33
97 WILKES	5	16.93	31	20.98	23.93
98 WILSON	4	13.31	32	21.19	15.13
99 YADKIN	3	20.72	18	24.96	20.14
100 YANCEY	4	52.21	15	39.84	21.05

* SEE SECTION I

CANCER OF THE PROSTATE

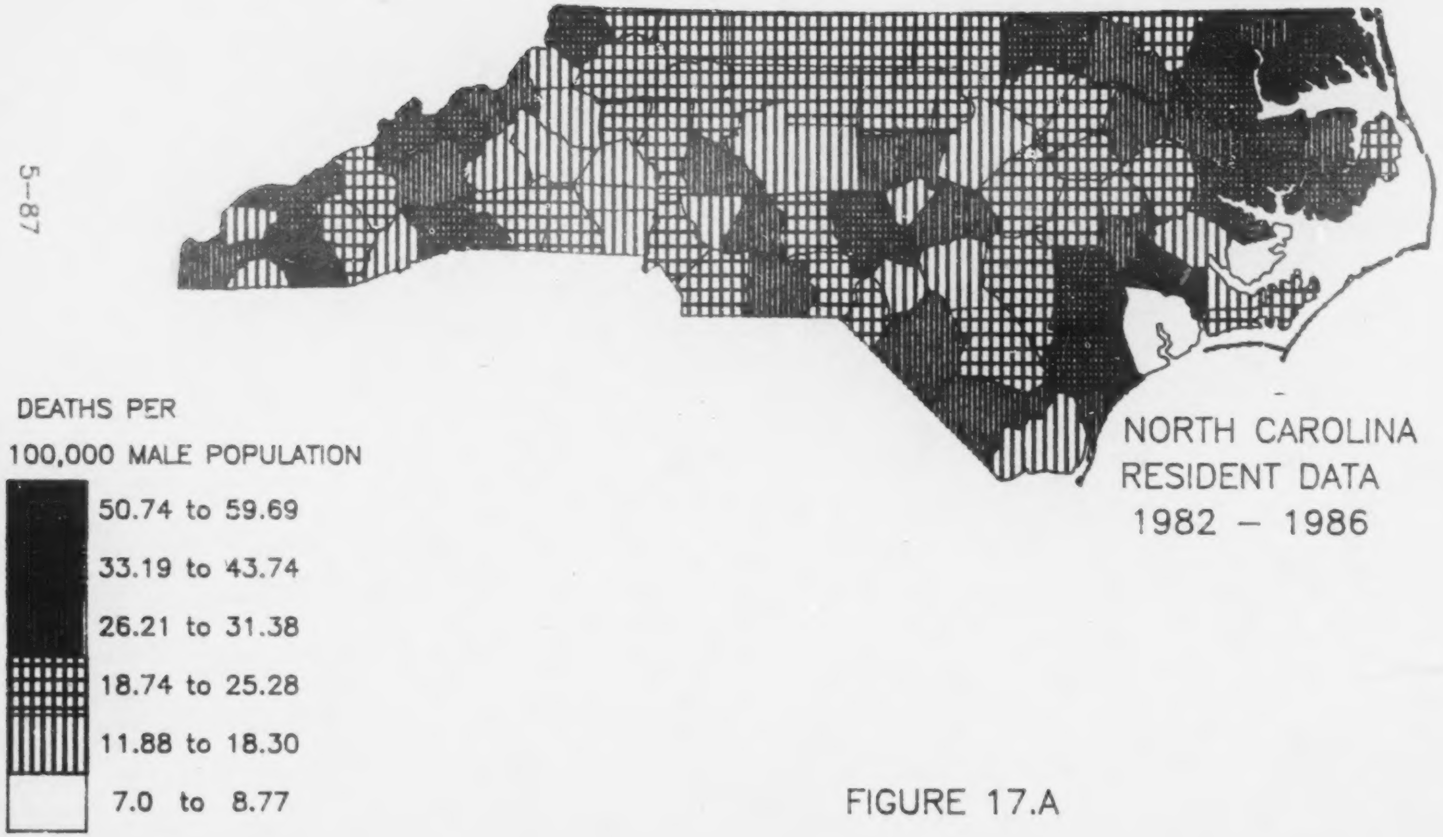

DEATHS PER
100,000 MALE POPULATION
50.74 to 59.69
33.19 to 43.74
26.21 to 31.38
18.74 to 25.28
11.88 to 18.30
7.0 to 8.77
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 17.A

5-89

CANCER OF THE PROSTATE

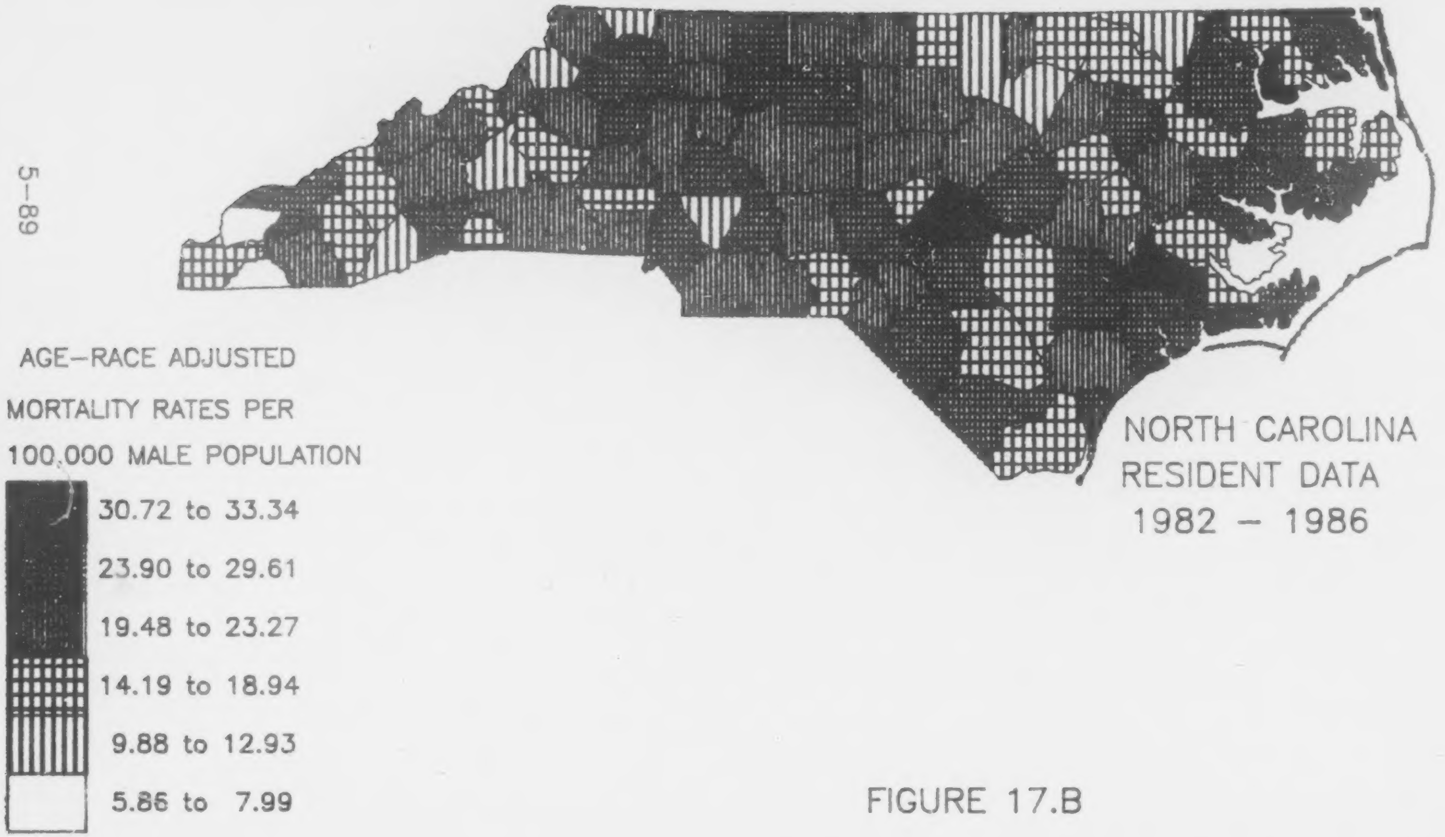

AGE-RACE ADJUSTED
MORTALITY RATES PER
100,000 MALE POPULATION
30.72 to 33.34
23.90 to 29.61
19.48 to 23.27
14.19 to 18.94
9.88 to 12.93
5.86 to 7.99
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 17.B

TABLE 18

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

LEUKEMIA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	423	6.68	2007	6.50	6.50
REGIONS					
DHR I WESTERN	157	7.24	721	6.82	6.40
DHR II N. CENTRAL	95	7.12	448	6.85	6.54
DHR III S. CENTRAL	90	6.04	418	5.81	6.63
DHR IV EASTERN	81	6.02	420	6.40	6.63
HSA I WESTERN	92	8.52	395	7.45	6.39
HSA II PIEDMONT	81	6.89	384	6.65	6.39
HSA III S. PIEDMONT	65	5.97	326	6.18	6.26
HSA IV CAPITAL	58	6.23	290	6.56	7.02
HSA V CARDINAL	63	6.59	274	5.84	6.63
HSA VI EASTERN	64	5.79	338	6.24	6.42
COUNTIES					
1 ALAMANCE	8	7.74	42	8.26	7.09
2 ALEXANDER	1	3.72	7	5.30	7.12
3 ALLEGHANY	1	10.28	2	4.08	2.57
4 ANSON	3	11.39	9	6.90	4.60
5 ASHE	0	0.00	10	8.62	5.38
6 AVERY	1	6.65	6	8.03	6.59
7 BEAUFORT	3	6.91	17	7.96	7.25
8 BERTIE	1	4.70	11	10.30	9.94
9 BLADEN	4	12.97	10	6.50	5.95
10 BRUNSWICK	3	6.27	10	4.61	4.56
11 BUNCOMBE	14	8.23	68	8.16	6.41
12 BURKE	4	5.26	25	6.68	6.39
13 CABARRUS	9	9.69	31	6.80	6.27
14 CALDWELL	10	14.25	26	7.54	8.41
15 CAMDEN	0	0.00	3	10.32	10.19
16 CARTERET	4	7.93	16	6.78	8.87
17 CASWELL	2	8.89	8	7.28	5.77
18 CATAWBA	9	7.88	33	5.94	5.72
19 CHATHAM	3	8.32	18	10.25	9.14
20 CHEROKEE	4	19.64	10	10.04	9.25
21 CHOWAN	0	0.00	3	4.62	3.98
22 CLAY	1	13.86	3	8.51	4.54
23 CLEVELAND	13	15.07	38	8.96	8.43
24 COLUMBUS	4	7.64	12	4.62	4.97
25 CRAVEN	7	8.72	20	5.19	6.13
26 CUMBERLAND	9	3.53	35	2.76	4.06
27 CURRITUCK	0	0.00	5	7.89	7.19
28 DARE	0	0.00	4	4.84	3.66
29 DAVIDSON	10	8.39	40	6.84	6.92
30 DAVIE	2	7.03	9	6.55	6.59
31 DUPLIN	2	4.79	14	6.74	5.76
32 DURHAM	13	7.83	56	6.98	6.92
33 EDGECOMBE	2	3.38	15	5.19	5.50
34 FORSYTH	21	8.05	75	5.87	5.84
35 FRANKLIN	0	0.00	11	6.84	6.92
36 GASTON	12	6.98	56	6.63	6.41
37 GATES	1	10.46	4	8.61	9.30
38 GRAHAM	0	0.00	3	8.40	5.14
39 GRANVILLE	6	15.91	19	10.45	8.04
40 GREENE	0	0.00	5	6.08	8.52
41 GUILFORD	15	4.54	112	6.89	6.86

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
LEUKEMIA CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	5	8.92	15	5.37	3.65
43 HARNETT	7	10.93	18	5.76	6.54
44 HAYWOOD	3	6.18	17	7.15	8.27 *
45 HENDERSON	4	5.95	22	6.80	3.99
46 HERTFORD	3	12.47	11	9.22	9.50
47 HOKE	0	0.00	4	3.56	3.92
48 HYDE	0	0.00	0	0.00	0.00
49 IREDELL	9	10.17	34	7.87	7.49
50 JACKSON	3	11.28	10	7.43	6.79
51 JOHNSTON	5	6.39	25	6.65	6.54
52 JONES	0	0.00	1	2.04	0.75
53 LEE	0	0.00	10	5.07	5.38
54 LENOIR	2	3.32	16	5.30	5.68
55 LINCOLN	0	0.00	12	5.38	5.39
56 MCDOWELL	3	8.28	10	5.52	4.21
57 MACON	2	8.66	8	7.08	2.96
58 MADISON	0	0.00	6	6.97	4.93
59 MARTIN	4	14.97	17	12.81	11.41
60 MECKLENBURG	21	4.63	121	5.57	6.38
61 MITCHELL	1	6.87	8	11.11	6.68
62 MONTGOMERY	1	4.19	13	11.06	10.12
63 MOORE	4	7.14	20	7.42	5.56
64 NASH	4	5.61	17	4.84	4.80
65 NEW HANOVER	7	6.10	47	8.50	8.74
66 NORTHAMPTON	1	4.44	16	14.25	14.64
67 ONSLOW	3	2.39	24	4.00	7.59
68 ORANGE	7	8.26	29	7.13	9.35
69 PAMLICO	1	9.04	2	3.69	2.39
70 PASQUOTANK	4	13.39	14	9.63	9.71
71 PENDER	3	11.90	13	10.87	10.43
72 PERQUIMANS	0	0.00	2	3.99	3.01
73 PERSON	1	3.26	10	6.63	6.39
74 PITT	6	6.15	34	7.13	8.23
75 POLK	0	0.00	9	12.69	6.92
76 RANDOLPH	7	7.06	27	5.62	5.18
77 RICHMOND	6	12.97	17	7.43	6.52
78 ROBESON	8	7.54	34	6.46	8.83
79 ROCKINGHAM	8	9.35	33	7.75	7.03
80 ROWAN	7	6.69	33	6.44	5.94
81 RUTHERFORD	7	12.30	22	7.83	6.78
82 SAMPSON	3	5.96	23	9.16	8.52
83 SCOTLAND	1	2.96	9	5.36	5.59
84 STANLY	3	5.96	14	5.65	4.99
85 STOKES	2	5.61	10	5.71	5.07
86 SURRY	4	6.49	22	7.25	7.20
87 SWAIN	3	27.42	7	13.08	12.24
88 TRANSYLVANIA	1	3.82	10	7.96	5.86
89 TYRRELL	1	24.46	1	4.82	5.27
90 UNION	4	5.01	25	6.53	7.70
91 VANCE	5	12.90	16	8.44	7.46
92 WAKE	16	4.37	88	5.18	6.54
93 WARREN	2	12.15	8	9.76	5.34
94 WASHINGTON	3	20.63	9	12.42	14.15
95 WATAUGA	4	11.60	15	8.84	7.78
96 WAYNE	5	5.13	27	5.50	6.35
97 WILKES	3	4.94	15	4.97	4.11
98 WILSON	2	3.09	15	4.67	4.61
99 YADKIN	2	6.74	6	4.08	2.88
100 YANCEY	0	0.00	5	6.47	4.51

* SEE SECTION I

LEUKEMIA

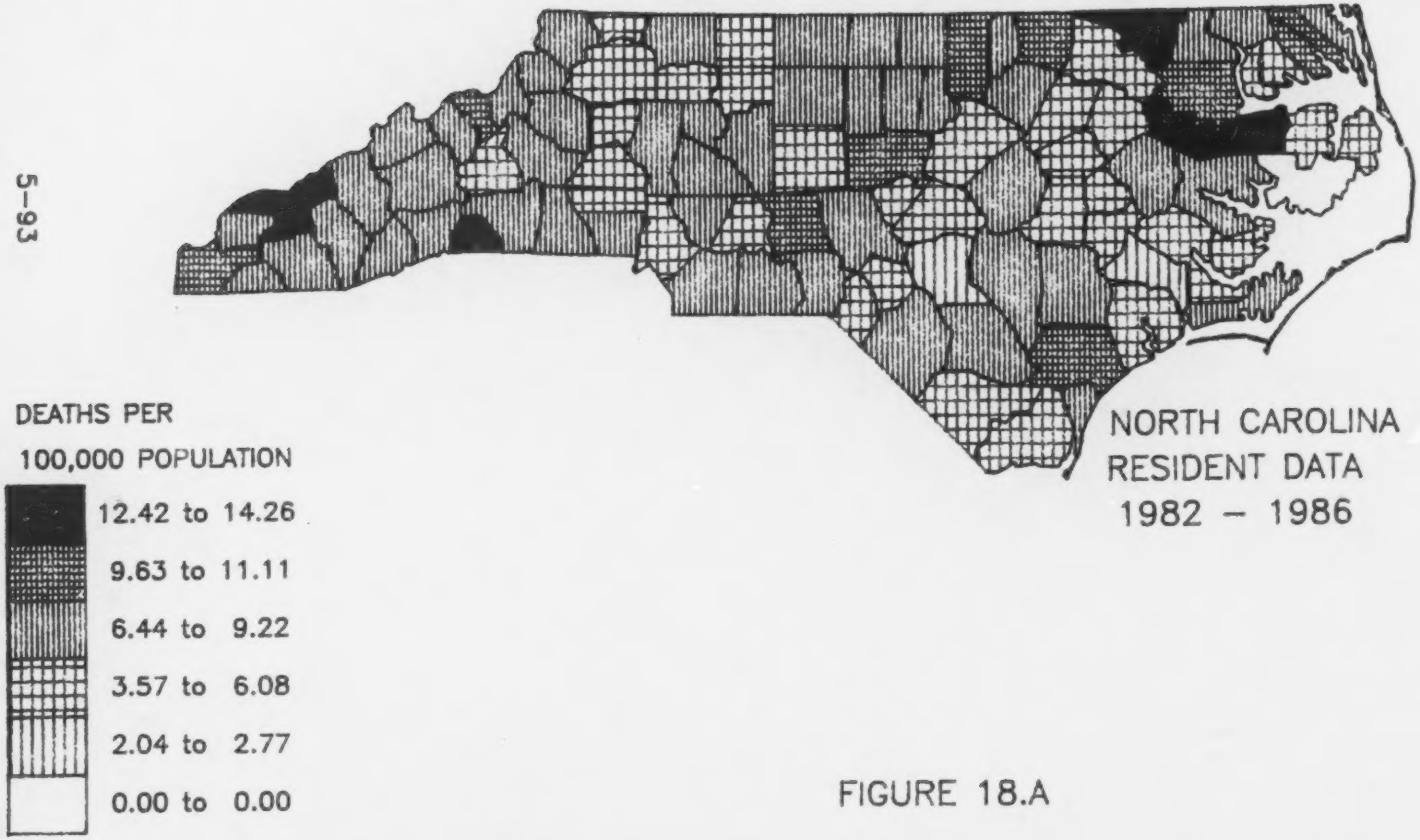
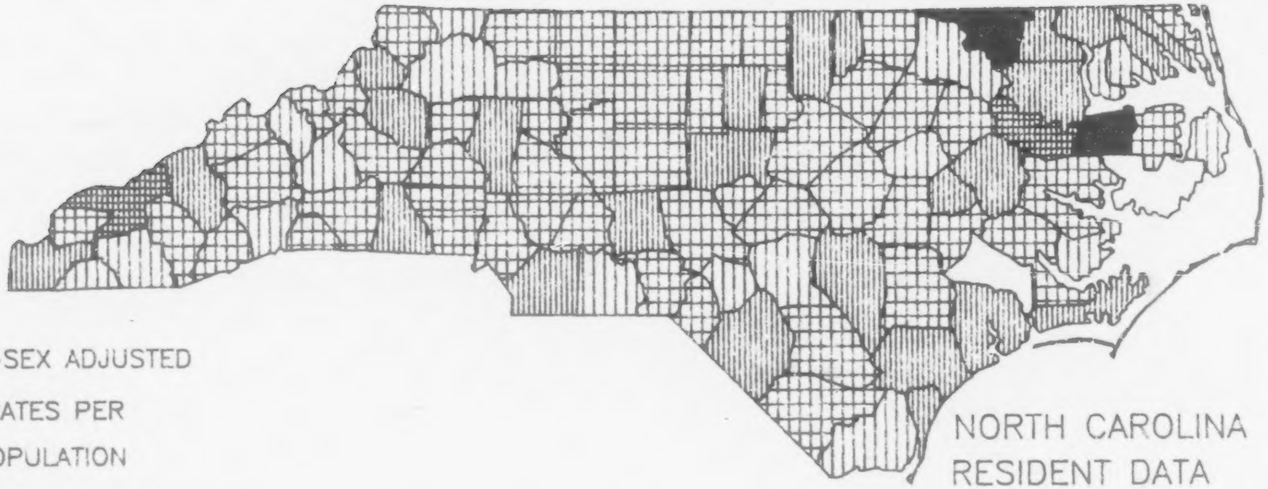

DEATHS PER
100,000 POPULATION
12.42 to 14.26
9.63 to 11.11
6.44 to 9.22
3.57 to 6.08
2.04 to 2.77
0.00 to 0.00
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 18.A

LEUKEMIA



AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

■ 14.15 to 14.64
▩ 11.41 to 12.24
▥ 7.46 to 10.43
▦ 4.80 to 7.25
▯ 2.40 to 4.61
□ 0.00 to 0.76

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 18.B

TABLE 19

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

DIABETES MELLITUS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	947	14.95	4324	14.01	14.01
REGIONS					
DHR I WESTERN	324	14.95	1482	14.02	14.72
DHR II N. CENTRAL	197	14.77	932	14.26	13.73
DHR III S. CENTRAL	204	13.71	950	13.21	14.38
DHR IV EASTERN	222	16.51	960	14.63	13.76
HSA I WESTERN	166	15.38	741	13.98	15.20
HSA II PIEDMONT	170	14.46	805	13.95	14.05
HSA III S. PIEDMONT	158	14.53	741	14.06	14.85
HSA IV CAPITAL	112	12.04	550	12.44	12.72
HSA V CARDINAL	159	16.64	676	14.42	14.88
HSA VI EASTERN	182	16.47	811	14.98	14.19
COUNTIES					
1 ALAMANCE	15	14.53	88	17.31	15.17
2 ALEXANDER	3	11.18	9	6.82	12.13
3 ALLEGHANY	0	0.00	3	6.12	3.68
4 ANSON	4	15.19	15	11.50	7.93
5 ASHE	6	25.80	19	16.39	10.11
6 AVERY	1	6.65	6	8.03	6.36
7 BEAUFORT	12	27.65	43	20.15	16.16
8 BERTIE	5	23.52	21	19.67	17.00
9 BLADEN	8	25.95	32	20.82	18.33
10 BRUNSWICK	4	8.36	25	11.52	11.40
11 BUNCOMBE	25	14.70	100	12.01	12.12
12 BURKE	15	19.73	59	15.76	19.22
13 CABARRUS	8	8.61	43	9.43	9.82
14 CALDWELL	12	17.10	64	18.57	24.02
15 CAMDEN	4	68.24	9	30.97	31.12
16 CARTERET	13	25.78	45	19.08	19.82
17 CASWELL	1	4.44	17	15.48	14.92
18 CATAWBA	15	13.14	78	14.05	16.40
19 CHATHAM	2	5.55	21	11.96	10.56
20 CHEROKEE	2	9.82	10	10.04	5.30
21 CHOWAN	3	22.40	10	15.42	9.69
22 CLAY	0	0.00	4	11.35	6.17
23 CLEVELAND	24	27.83	93	21.93	21.58
24 COLUMBUS	10	19.12	41	15.79	13.58
25 CRAVEN	5	6.23	30	7.79	8.92
26 CUMBERLAND	28	10.98	117	9.22	16.20
27 CURRITUCK	4	29.92	12	18.94	18.98
28 DARE	1	5.34	7	8.47	6.06
29 DAVIDSON	13	10.91	76	13.00	15.49
30 DAVIE	6	21.11	20	14.56	15.25
31 DUPLIN	5	11.99	45	21.69	17.18
32 DURHAM	16	9.64	104	12.97	11.40
33 EDGECOMBE	9	15.23	40	13.84	11.55
34 FORSYTH	49	18.78	195	15.28	14.63
35 FRANKLIN	2	5.85	22	13.69	11.50
36 GASTON	27	15.71	111	13.14	14.50
37 GATES	3	31.39	7	15.08	11.86
38 GRAHAM	0	0.00	3	8.40	20.44
39 GRANVILLE	8	21.22	30	16.50	12.21
40 GREENE	3	18.08	15	18.24	18.50
41 GUILFORD	48	14.55	210	12.93	13.00

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
DIABETES MELLITUS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	11	19.63	59	21.14	16.82
43 HARNETT	10	15.62	57	18.25	19.51
44 HAYWOOD	7	14.44	25	10.51	6.76
45 HENDERSON	7	10.41	33	10.20	9.35
46 HERTFORD	3	12.47	25	20.96	14.37
47 HOKE	3	12.96	23	20.51	19.05
48 HYDE	0	0.00	4	13.46	11.42
49 IREDELL	14	15.83	77	17.83	17.43
50 JACKSON	4	15.05	16	11.90	19.39
51 JOHNSTON	12	15.34	55	14.64	14.63
52 JONES	0	0.00	5	10.20	6.77
53 LEE	5	12.07	23	11.66	11.48
54 LENOIR	13	21.58	34	11.26	9.59
55 LINCOLN	3	6.48	34	15.24	21.66
56 MCDOWELL	7	19.32	27	14.91	16.61
57 MACON	2	8.66	14	12.40	6.79
58 MADISON	6	34.56	20	23.25	47.86 *
59 MARTIN	9	33.68	34	25.62	19.68
60 MECKLENBURG	65	14.34	288	13.27	14.75
61 MITCHELL	5	34.38	16	22.22	13.34
62 MONTGOMERY	3	12.57	15	12.77	11.12
63 MOORE	5	8.92	34	12.61	10.58
64 NASH	13	18.24	56	15.96	15.09
65 NEW HANOVER	23	20.06	71	12.84	12.83
66 NORTHAMPTON	7	31.11	27	24.05	13.33
67 ONSLOW	11	8.79	35	5.83	14.17
68 ORANGE	13	15.34	39	9.59	12.23
69 PAMLICO	1	9.04	9	16.62	10.11
70 PASQUOTANK	3	10.04	24	16.51	12.87
71 PENDER	3	11.90	12	10.04	8.41
72 PERQUIMANS	0	0.00	2	3.99	2.80
73 PERSON	7	22.83	22	14.59	11.70
74 PITT	17	17.45	66	13.84	13.45
75 POLK	0	0.00	14	19.74	10.17
76 RANDOLPH	9	9.08	44	9.16	12.16
77 RICHMOND	10	21.63	46	20.11	17.17
78 ROBESON	29	27.33	117	22.24	24.44
79 ROCKINGHAM	14	16.37	57	13.38	12.74
80 ROWAN	19	18.17	101	19.72	17.95
81 RUTHERFORD	3	5.27	29	10.33	10.66
82 SAMPSON	11	21.85	41	16.34	13.91
83 SCOTLAND	8	23.71	30	17.88	17.45
84 STANLY	13	25.85	44	17.76	19.80
85 STOKES	5	14.04	19	10.85	12.34
86 SURRY	9	14.62	55	18.12	17.05
87 SWAIN	3	27.42	15	28.03	24.20
88 TRANSYLVANIA	3	11.48	18	14.34	19.69
89 TYRRELL	0	0.00	3	14.46	11.06
90 UNION	9	11.27	43	11.24	13.12
91 VANCE	9	23.23	40	21.11	17.08
92 WAKE	37	10.10	181	10.66	13.68
93 WARREN	1	6.07	13	15.87	10.03
94 WASHINGTON	2	13.75	11	15.18	15.07
95 WATAUGA	1	2.90	13	7.66	19.85
96 WAYNE	12	12.31	75	15.30	15.50
97 WILKES	10	16.46	38	12.59	14.54
98 WILSON	13	20.13	58	18.06	18.77
99 YADKIN	1	3.37	24	16.35	12.73
100 YANCEY	5	31.55	15	19.41	13.08

* SEE SECTION I

TABLE 20

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

PNEUMONIA AND INFLUENZA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	1800	28.43	7579	24.56	24.56
REGIONS					
DHR I WESTERN	681	31.43	2835	26.83	24.61
DHR II N. CENTRAL	428	32.10	1698	25.98	24.55
DHR III S. CENTRAL	335	22.51	1424	19.80	23.48
DHR IV EASTERN	356	26.47	1622	24.72	25.90
HSA I WESTERN	390	36.14	1622	30.60	25.39
HSA II PIEDMONT	365	31.05	1444	25.02	24.01
HSA III S. PIEDMONT	291	26.76	1213	23.02	23.66
HSA IV CAPITAL	232	24.94	1004	22.72	24.64
HSA V CAROINAL	235	24.59	932	19.89	23.16
HSA VI EASTERN	287	25.98	1364	25.21	26.52
COUNTIES					
1 ALAMANCE	24	23.24	102	20.07	17.76
2 ALEXANDER	9	33.56	28	21.22	26.97
3 ALLEGHANY	10	102.85	38	77.58	44.82
4 ANSON	15	56.98	69	52.90	44.31
5 ASHE	10	43.00	26	22.42	12.00
6 AVERY	5	33.27	25	33.47	28.47
7 BEAUFORT	17	39.17	76	35.62	30.72
8 BERTIE	4	18.82	32	29.98	25.02
9 BLADEN	12	38.92	44	28.63	29.33
10 BRUNSWICK	19	39.75	62	28.58	29.66
11 BUNCOMBE	68	39.99	355	42.64	30.68
12 BURKE	17	22.37	85	22.71	25.21
13 CABARRUS	40	43.08	150	32.90	29.69
14 CALDWELL	13	18.53	66	19.15	22.38
15 CAMDEN	2	34.12	13	44.74	45.73
16 CARTERET	6	11.90	48	20.35	19.27
17 CASWELL	6	26.67	21	19.13	18.76
18 CATAWBA	33	28.91	128	23.05	25.79
19 CHATHAM	11	30.54	35	19.94	17.43
20 CHEROKEE	5	24.55	25	25.10	13.17
21 CHOWAN	7	52.28	34	52.45	38.91
22 CLAY	5	69.34	15	42.57	22.76
23 CLEVELAND	23	26.67	93	21.93	20.33
24 COLUMBUS	23	43.98	77	29.66	29.12
25 CRAVEN	12	14.96	61	15.84	23.27
26 CUMBERLAND	32	12.55	121	9.54	20.19
27 CURRITUCK	2	14.96	21	33.15	31.41
28 DARE	5	26.73	21	25.41	26.39
29 DAVIDSON	33	27.70	143	24.47	24.99
30 DAVIE	9	31.67	27	19.66	21.10
31 DUPLIN	8	19.19	48	23.13	19.06
32 DURHAM	54	32.56	237	29.57	29.16
33 EDGECOMBE	26	44.01	104	35.98	30.62
34 FORSYTH	90	34.50	285	22.33	21.27
35 FRANKLIN	8	23.41	38	23.64	20.41
36 GASTON	53	30.85	194	22.97	25.01
37 GATES	2	20.92	17	36.63	25.81
38 GRAHAM	2	27.88	5	14.01	7.46
39 GRANVILLE	14	37.13	68	37.41	33.60
40 GREENE	2	12.05	15	18.24	15.99
41 GUILFORD	85	25.76	405	24.94	24.18

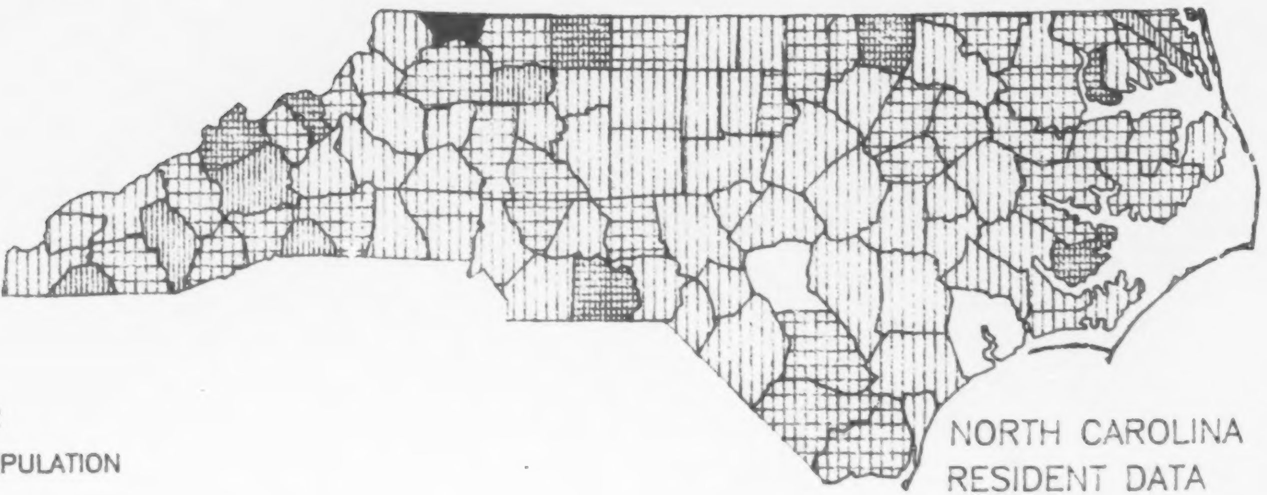
* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
PNEUMONIA AND INFLUENZA CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	14	24.98	71	25.44	21.10
43 HARNETT	18	28.12	59	18.89	20.58
44 HAYWOOD	25	51.57	82	34.48	23.15
45 HENDERSON	33	49.09	120	37.09	19.69
46 HERTFORD	9	37.42	29	24.31	19.65
47 HOKE	5	21.61	30	26.75	34.81
48 HYDE	0	0.00	11	37.03	29.03
49 IREDELL	30	33.92	122	28.25	25.66
50 JACKSON	8	30.10	52	38.68	32.30
51 JOHNSTON	25	31.97	79	21.03	20.69
52 JONES	3	30.56	11	22.45	23.15
53 LEE	8	19.31	42	21.30	21.99
54 LENOIR	13	21.58	76	25.18	26.22
55 LINCOLN	8	17.28	43	19.28	20.04
56 MCDOWELL	8	22.08	41	22.65	21.01
57 MACON	4	17.32	38	33.67	24.77
58 MADISON	9	51.84	41	47.68	32.56
59 MARTIN	7	26.19	39	29.38	27.43
60 MECKLENBURG	93	20.52	401	18.47	21.25
61 MITCHELL	9	61.89	40	55.56	29.74
62 MONTGOMERY	11	46.11	39	33.20	28.14
63 MOORE	14	24.99	66	24.49	18.32
64 NASH	22	30.88	104	29.64	28.73
65 NEW HANOVER	23	20.06	92	16.64	17.75
66 NORTHAMPTON	8	35.56	33	29.40	29.18
67 ONSLOW	12	9.58	61	10.17	25.40
68 ORANGE	13	15.34	73	17.96	23.82
69 PAMLICO	4	36.18	27	49.86	38.51
70 PASQUOTANK	13	43.53	47	32.33	29.82
71 PENDER	4	15.87	27	22.59	17.51
72 PERQUIMANS	2	18.98	11	21.98	13.73
73 PERSON	9	29.36	31	20.57	18.03
74 PITT	28	28.74	118	24.75	28.86
75 POLK	9	62.12	28	39.49	25.80
76 RANDOLPH	18	18.16	83	17.28	19.40
77 RICHMOND	12	25.95	48	20.99	19.11
78 ROBESON	23	21.67	109	20.72	25.86
79 ROCKINGHAM	38	44.43	148	34.75	32.85
80 ROWAN	40	38.26	178	34.75	26.90
81 RUTHERFORD	29	50.98	98	34.91	27.95
82 SAMPSON	18	35.77	63	25.11	23.16
83 SCOTLAND	6	17.78	26	15.50	18.22
84 STANLY	13	25.85	48	19.37	15.66
85 STOKES	26	73.01	82	46.82	45.36
86 SURRY	14	22.74	89	29.33	20.64
87 SWAIN	4	36.56	14	26.16	16.84
88 TRANSYLVANIA	14	53.57	37	29.47	25.98
89 TYRRELL	2	48.92	7	33.75	30.74
90 UNION	14	17.53	77	20.13	23.16
91 VANCE	20	51.62	71	37.48	30.23
92 WAKE	58	15.84	284	16.72	23.10
93 WARREN	12	72.93	46	56.16	42.23
94 WASHINGTON	8	55.01	22	30.37	35.35
95 WATAUGA	6	17.40	27	15.91	11.19
96 WAYNE	22	22.58	102	20.81	24.78
97 WILKES	23	37.87	90	29.83	28.97
98 WILSON	27	41.81	105	32.69	35.83
99 YADKIN	22	74.21	59	40.20	30.67
100 YANCEY	9	56.80	25	32.36	18.09

* SEE SECTION I

INFLUENZA AND PNEUMONIA



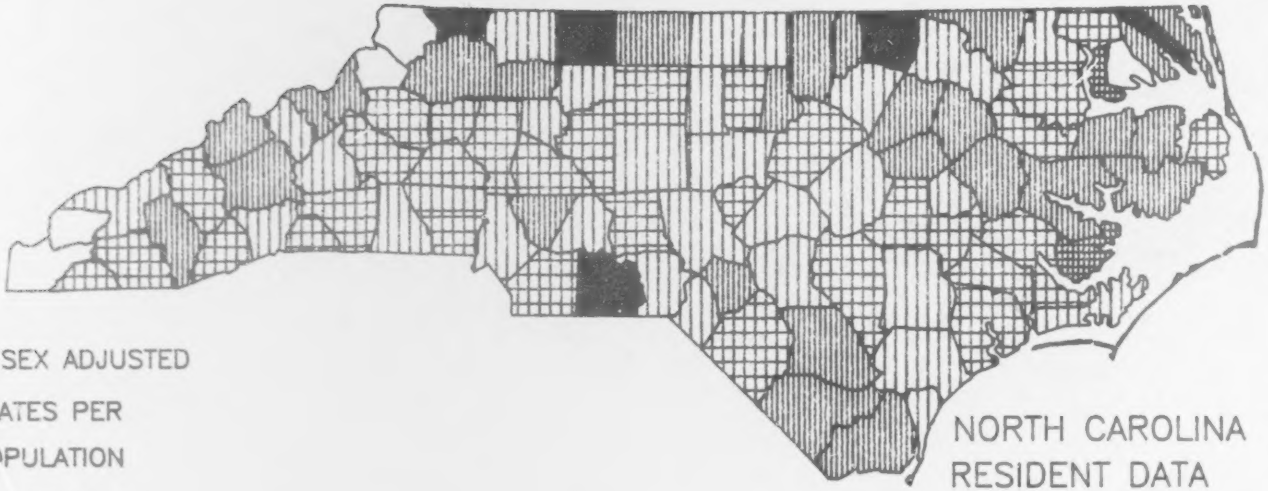
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

DEATHS PER
100,000 POPULATION

■	77.59
▦	46.83 to 56.16
▥	38.69 to 44.74
▦	28.25 to 37.48
▥	14.01 to 26.76
☐	9.54 to 10.17

FIGURE 20.A

INFLUENZA AND PNEUMONIA



NORTH CAROLINA
RESIDENT DATA
1982 – 1986

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

■ 42.24 to 45.73
▩ 38.51 to 38.92
▓ 28.48 to 35.83
▦ 21.99 to 28.14
▥ 15.67 to 21.28
□ 7.46 to 13.73

FIGURE 20.B

TABLE 21

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CHRONIC OBSTRUCTIVE PULMONARY DISEASES

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	1825	28.82	7845	25.42	25.42
REGIONS					
DHR I WESTERN	651	30.05	2812	26.61	23.89
DHR II N. CENTRAL	416	31.20	1780	27.24	25.73
DHR III S. CENTRAL	368	24.73	1572	21.86	27.01
DHR IV EASTERN	390	29.00	1681	25.62	27.92
HSA I WESTERN	404	37.44	1641	30.96	25.19
HSA II PIEDMONT	367	31.22	1578	27.34	25.96
HSA III S. PIEDMONT	247	22.72	1171	22.23	22.42
HSA IV CAPITAL	222	23.87	976	22.09	25.69
HSA V CARDINAL	274	28.67	1100	23.47	27.73
HSA VI EASTERN	311	28.15	1379	25.48	28.30
COUNTIES					
1 ALAMANCE	34	32.93	149	29.32	24.65
2 ALEXANDER	10	37.29	24	18.19	19.70
3 ALLEGHANY	4	41.14	20	40.83	22.89
4 ANSON	2	7.59	15	11.50	12.36
5 ASHE	11	47.30	56	48.31	28.39
6 AVERY	4	26.61	32	42.85	46.93 *
7 BEAUFORT	16	36.86	72	33.74	31.17
8 BERTIE	7	32.93	22	20.61	21.74
9 BLADEN	13	42.17	30	19.52	20.84
10 BRUNSWICK	13	27.19	52	23.97	22.45
11 BUNCOMBE	69	40.58	295	35.43	26.98
12 BURKE	26	34.21	119	31.80	29.09
13 CABARRUS	19	20.46	127	27.85	24.29
14 CALDWELL	23	32.78	86	24.95	26.74
15 CAMDEN	2	34.12	4	13.76	11.03
16 CARTERET	14	27.77	69	29.26	23.97
17 CASWELL	10	44.46	31	28.24	28.44
18 CATAWBA	27	23.65	123	22.15	22.89
19 CHATHAM	9	24.98	40	22.79	19.99
20 CHEROKEE	12	58.93	30	30.13	24.04
21 CHOWAN	1	7.46	18	27.77	23.56
22 CLAY	5	69.34	20	56.76	30.35
23 CLEVELAND	34	39.43	106	24.99	23.13
24 COLUMBUS	21	40.15	68	26.19	26.61
25 CRAVEN	30	37.40	90	23.38	32.82
26 CUMBERLAND	45	17.65	206	16.25	34.10
27 CURRITUCK	1	7.48	12	18.94	20.80
28 DARE	7	37.42	23	27.83	25.88
29 DAVIDSON	32	26.86	144	24.64	24.60
30 DAVIE	6	21.11	32	23.31	21.08
31 DUPLIN	19	45.57	71	34.22	31.96
32 DURHAM	49	29.54	181	22.58	25.64
33 EDGECOMBE	17	28.77	86	29.75	34.05
34 FORSYTH	79	30.28	366	28.68	28.64
35 FRANKLIN	9	26.33	31	19.29	17.72
36 GASTON	49	28.52	196	23.21	22.21
37 GATES	1	10.46	14	30.16	21.88
38 GRAHAM	5	69.70	15	42.03	27.45
39 GRANVILLE	14	37.13	55	30.26	34.02
40 GREENE	4	24.11	25	30.41	34.89
41 GUILFORD	107	32.43	444	27.34	27.32

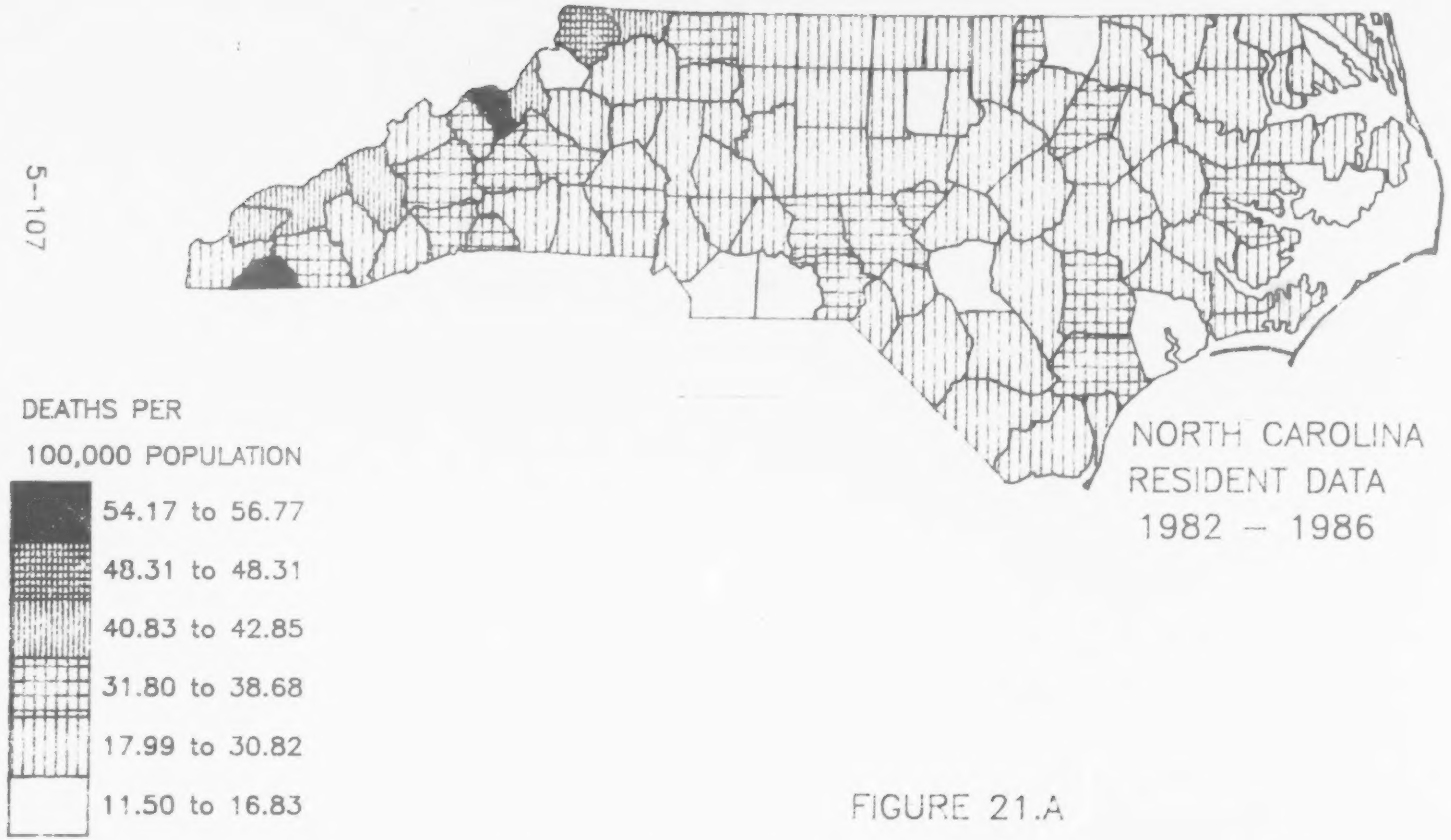
* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CHRONIC OBSTRUCTIVE PULMONARY DISEASES CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	13	23.20	86	30.81	30.00
43 HARNETT	24	37.49	88	28.18	30.77
44 HAYWOOD	22	45.38	99	41.63	25.05
45 HENDERSON	38	56.52	117	36.17	24.54
46 HERTFORD	5	20.79	34	28.51	27.79
47 HOKE	7	30.25	24	21.40	36.91
48 HYDE	0	0.00	5	16.83	16.06
49 IREDELL	14	15.83	93	21.53	18.88
50 JACKSON	6	22.57	31	23.06	22.41
51 JOHNSTON	18	23.02	103	27.42	26.26
52 JONES	1	10.18	11	22.45	22.54
53 LEE	15	36.22	71	36.01	37.33
54 LENOIR	11	18.26	73	24.19	25.65
55 LINCOLN	6	12.96	47	21.07	21.42
56 MCDOWELL	19	52.45	70	38.68	32.48
57 MACON	10	43.31	41	36.33	17.74
58 MADISON	5	28.80	23	26.74	37.26 *
59 MARTIN	11	41.16	39	29.38	26.91
60 MECKLENBURG	105	23.17	479	22.07	26.31
61 MITCHELL	6	41.26	39	54.17	31.26
62 MONTGOMERY	10	41.92	38	32.35	28.48
63 MOORE	20	35.70	102	37.84	27.70
64 NASH	25	35.09	116	33.06	34.85
65 NEW HANOVER	31	27.03	143	25.86	27.48
66 NORTHAMPTON	5	22.22	27	24.05	24.83
67 ONSLOW	22	17.58	80	13.33	31.66
68 ORANGE	18	21.24	64	15.74	21.01
69 PAMLICO	10	90.47	15	27.70	22.70
70 PASQUOTANK	3	10.04	20	13.76	12.94
71 PENDER	14	55.55	39	32.63	32.04
72 PERQUIMANS	4	37.97	9	17.98	12.82
73 PERSON	12	39.15	34	22.56	20.67
74 PITT	27	27.71	131	27.48	36.65
75 POLK	6	41.41	27	38.08	26.33
76 RANDOLPH	15	15.14	94	19.57	16.96
77 RICHMOND	25	54.08	75	32.79	29.85
78 ROBESON	29	27.33	118	22.43	30.85
79 ROCKINGHAM	36	42.09	131	30.76	27.72
80 ROWAN	30	28.70	120	23.43	18.43
81 RUTHERFORD	17	29.88	85	30.28	22.73
82 SAMPSON	11	21.85	64	25.51	23.77
83 SCOTLAND	9	26.67	38	22.65	29.93
84 STANLY	14	27.84	56	22.60	17.46
85 STOKES	11	30.89	45	25.69	26.15
86 SURRY	25	40.62	101	33.29	28.46
87 SWAIN	3	27.42	22	41.11	34.12
88 TRANSYLVANIA	8	30.61	30	23.90	15.80
89 TYRRELL	3	73.38	5	24.10	18.13
90 UNION	10	12.52	53	13.86	15.25
91 VANCE	13	33.55	69	36.42	37.04
92 WAKE	64	17.48	315	18.55	26.27
93 WARREN	1	6.07	13	15.87	12.30
94 WASHINGTON	6	41.26	20	27.61	30.74
95 WATAUGA	6	17.40	24	14.14	20.12 *
96 WAYNE	26	26.69	119	24.27	31.03
97 WILKES	19	31.28	80	26.52	25.81
98 WILSON	20	30.97	83	25.84	28.97
99 YADKIN	12	40.48	41	27.93	20.96
100 YANCEY	9	56.80	27	34.95	21.31

* SEE SECTION I

CHRONIC OBSTRUCTIVE PULMONARY DISEASE


DEATHS PER
100,000 POPULATION
54.17 to 56.77
48.31 to 48.31
40.83 to 42.85
31.80 to 38.68
17.99 to 30.82
11.50 to 16.83

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 21.A

CHRONIC OBSTRUCTIVE PULMONARY DISEASE

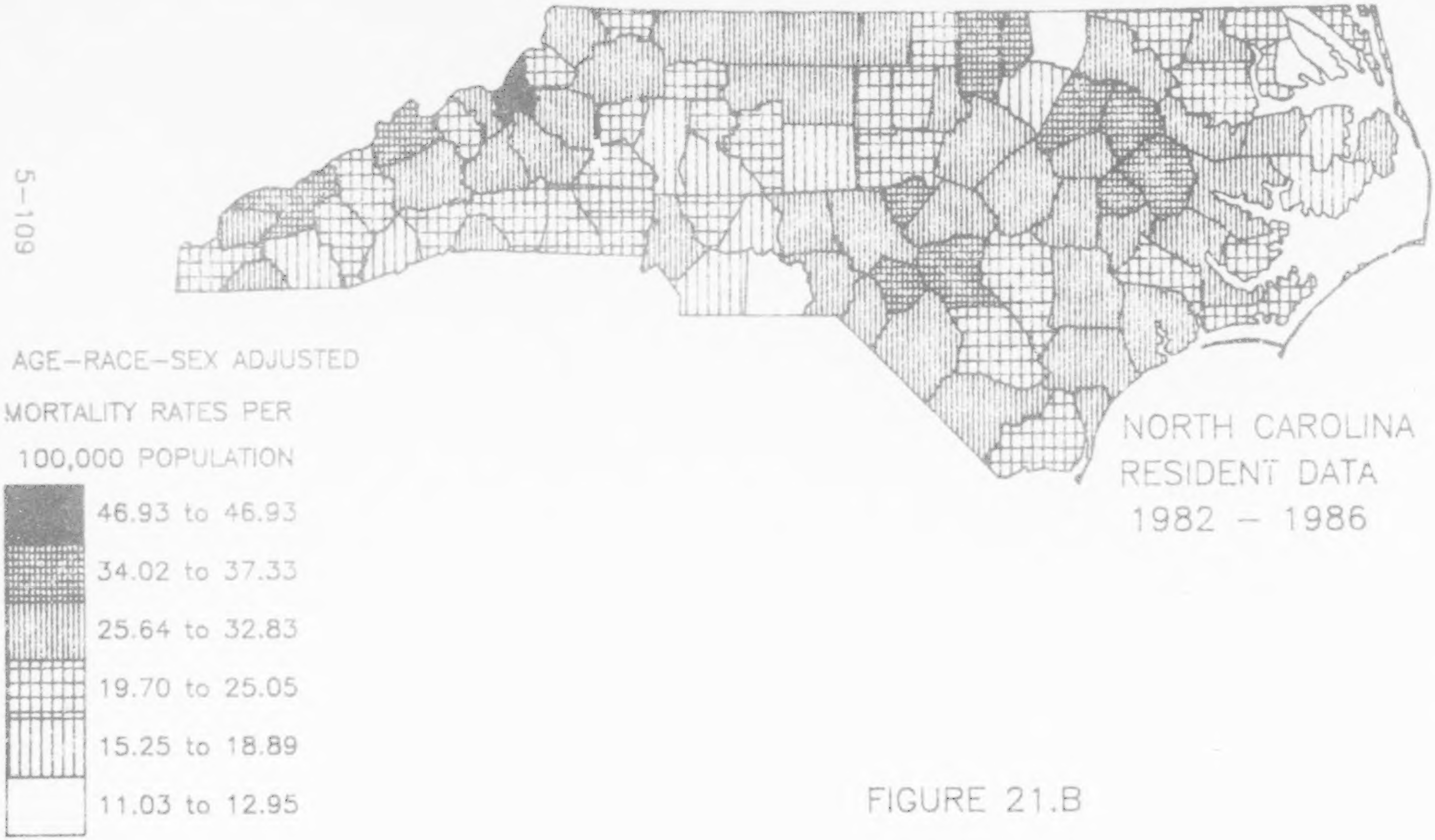

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
46.93 to 46.93
34.02 to 37.33
25.64 to 32.83
19.70 to 25.05
15.25 to 18.89
11.03 to 12.95
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 21.B

TABLE 22

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

CHRONIC LIVER DISEASE AND CIRRHOSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	632	9.98	2958	9.58	9.58
REGIONS					
DHR I WESTERN	210	9.69	974	9.21	9.60
DHR II N. CENTRAL	141	10.57	629	9.62	9.21
DHR III S. CENTRAL	128	8.60	635	8.83	9.70
DHR IV EASTERN	153	11.37	720	10.97	11.21
HSA I WESTERN	115	10.65	491	9.26	10.11
HSA II PIEDMONT	127	10.80	556	9.63	9.38
HSA III S. PIEDMONT	95	8.73	483	9.16	9.36
HSA IV CAPITAL	63	6.77	370	8.37	8.81
HSA V CARDINAL	109	11.40	456	9.73	10.50
HSA VI EASTERN	123	11.13	602	11.12	11.54
COUNTIES					
1 ALAMANCE	10	9.68	46	9.05	7.77
2 ALEXANDER	1	3.72	10	7.58	10.30
3 ALLEGHANY	1	10.28	4	8.16	5.57
4 ANSON	4	15.19	19	14.56	15.91
5 ASHE	2	8.60	3	2.58	1.80
6 AVERY	2	13.30	7	9.37	7.53
7 BEAUFORT	7	16.13	32	14.99	14.43
8 BERTIE	0	0.00	13	12.18	15.45
9 BLADEN	1	3.24	6	3.90	4.91
10 BRUNSWICK	9	18.82	19	8.76	8.05
11 BUNCOMBE	22	12.94	90	10.81	10.80
12 BURKE	7	9.21	40	10.69	13.49
13 CABARRUS	10	10.77	36	7.89	8.01
14 CALDWELL	9	12.83	30	8.70	9.34
15 CAMDEN	0	0.00	2	6.88	6.83
16 CARTERET	8	15.86	33	13.99	11.70
17 CASWELL	2	8.89	11	10.02	10.91
18 CATAWBA	12	10.51	53	9.54	9.16
19 CHATHAM	0	0.00	11	6.26	5.66
20 CHEROKEE	4	19.64	17	17.07	15.69
21 CHOWAN	0	0.00	5	7.71	6.33
22 CLAY	0	0.00	3	8.51	6.17
23 CLEVELAND	12	13.91	43	10.14	9.94
24 COLUMBUS	5	9.56	19	7.32	6.94
25 CRAVEN	3	3.74	35	9.09	11.45
26 CUMBERLAND	29	11.37	103	8.12	11.97
27 CURRITUCK	0	0.00	5	7.89	6.85
28 DARE	4	21.38	10	12.10	8.33
29 DAVIDSON	9	7.55	39	6.67	6.49
30 DAVIE	1	3.51	10	7.28	6.15
31 DUPLIN	6	14.39	18	8.67	8.00
32 DURHAM	11	6.63	72	8.98	9.44
33 EDGECOMBE	8	13.54	39	13.49	13.19
34 FORSYTH	38	14.56	157	12.30	11.74
35 FRANKLIN	3	8.77	21	13.06	11.88
36 GASTON	21	12.22	102	12.07	12.08
37 GATES	1	10.46	5	10.77	14.08
38 GRAHAM	0	0.00	3	8.40	6.25
39 GRANVILLE	4	10.61	9	4.95	4.38
40 GREENE	2	12.05	6	7.29	7.63
41 GUILFORD	35	10.61	152	9.36	9.13

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
CHRONIC LIVER DISEASE AND CIRRHOSIS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	13	23.20	41	14.69	12.77
43 HARNETT	4	6.24	26	8.32	8.93
44 HAYWOOD	4	8.25	22	9.25	6.36
45 HENDERSON	6	8.92	32	9.89	9.07
46 HERTFORD	5	20.79	15	12.57	10.78
47 HOKE	3	12.96	9	8.02	12.85
48 HYDE	5	84.61	6	20.20	23.18
49 IREDELL	8	9.04	40	9.26	9.04
50 JACKSON	5	18.81	14	10.41	15.39
51 JOHNSTON	8	10.23	38	10.11	9.96
52 JONES	1	10.18	3	6.12	4.91
53 LEE	5	12.07	31	15.72	15.74
54 LENOIR	8	13.28	44	14.58	13.96
55 LINCOLN	4	8.64	16	7.17	7.45
56 MCDOWELL	2	5.52	9	4.97	3.81
57 MACON	2	8.66	6	5.31	2.66
58 MADISON	2	11.52	5	5.81	4.33
59 MARTIN	2	7.48	18	13.56	12.28
60 MECKLENBURG	35	7.72	198	9.12	9.25
61 MITCHELL	2	13.75	10	13.89	9.83
62 MONTGOMERY	3	12.57	8	6.81	6.21
63 MOORE	9	16.06	47	17.44	15.49
64 NASH	13	18.24	44	12.54	12.33
65 NEW HANOVER	14	12.21	64	11.57	11.71
66 NORTHAMPTON	4	17.78	15	13.36	10.39
67 ONSLOW	8	6.39	37	6.16	11.08
68 ORANGE	4	4.72	18	4.42	5.84
69 PAMLICO	1	9.04	12	22.16	16.53
70 PASQUOTANK	3	10.04	13	8.94	8.43
71 PENDER	2	7.93	16	13.39	12.46
72 PERQUIMANS	0	0.00	5	9.99	11.12
73 PERSON	1	3.26	12	7.96	7.30
74 PITT	10	10.26	40	8.39	9.60
75 POLK	1	6.90	8	11.28	15.69
76 RANDOLPH	5	5.04	35	7.28	8.88
77 RICHMOND	8	17.30	28	12.24	11.06
78 ROBESON	8	7.54	41	7.79	8.57
79 ROCKINGHAM	13	15.20	47	11.03	10.39
80 ROWAN	8	7.65	51	9.95	9.75
81 RUTHERFORD	5	8.79	25	8.90	9.16
82 SAMPSON	4	7.94	23	9.16	9.60
83 SCOTLAND	6	17.78	28	16.69	17.23
84 STANLY	5	9.94	20	8.07	8.51
85 STOKES	5	14.04	17	9.70	10.50
86 SURRY	7	11.37	28	9.22	11.44
87 SWAIN	4	36.56	9	16.82	15.60
88 TRANSYLVANIA	3	11.48	8	6.37	4.74
89 TYRRELL	1	24.46	3	14.46	12.14
90 UNION	4	5.01	20	5.23	6.08
91 VANCE	5	12.90	25	13.19	12.20
92 WAKE	21	5.73	127	7.48	8.98
93 WARREN	1	6.07	6	7.32	7.51
94 WASHINGTON	0	0.00	5	6.90	7.47
95 WATAUGA	2	5.80	10	5.89	16.33
96 WAYNE	3	3.07	54	11.01	11.02
97 WILKES	5	8.23	23	7.62	9.94
98 WILSON	7	10.84	44	13.70	13.07
99 YADKIN	2	6.74	14	9.53	12.29
100 YANCEY	0	0.00	7	9.06	6.69

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CHRONIC LIVER DISEASE AND CIRRHOSIS

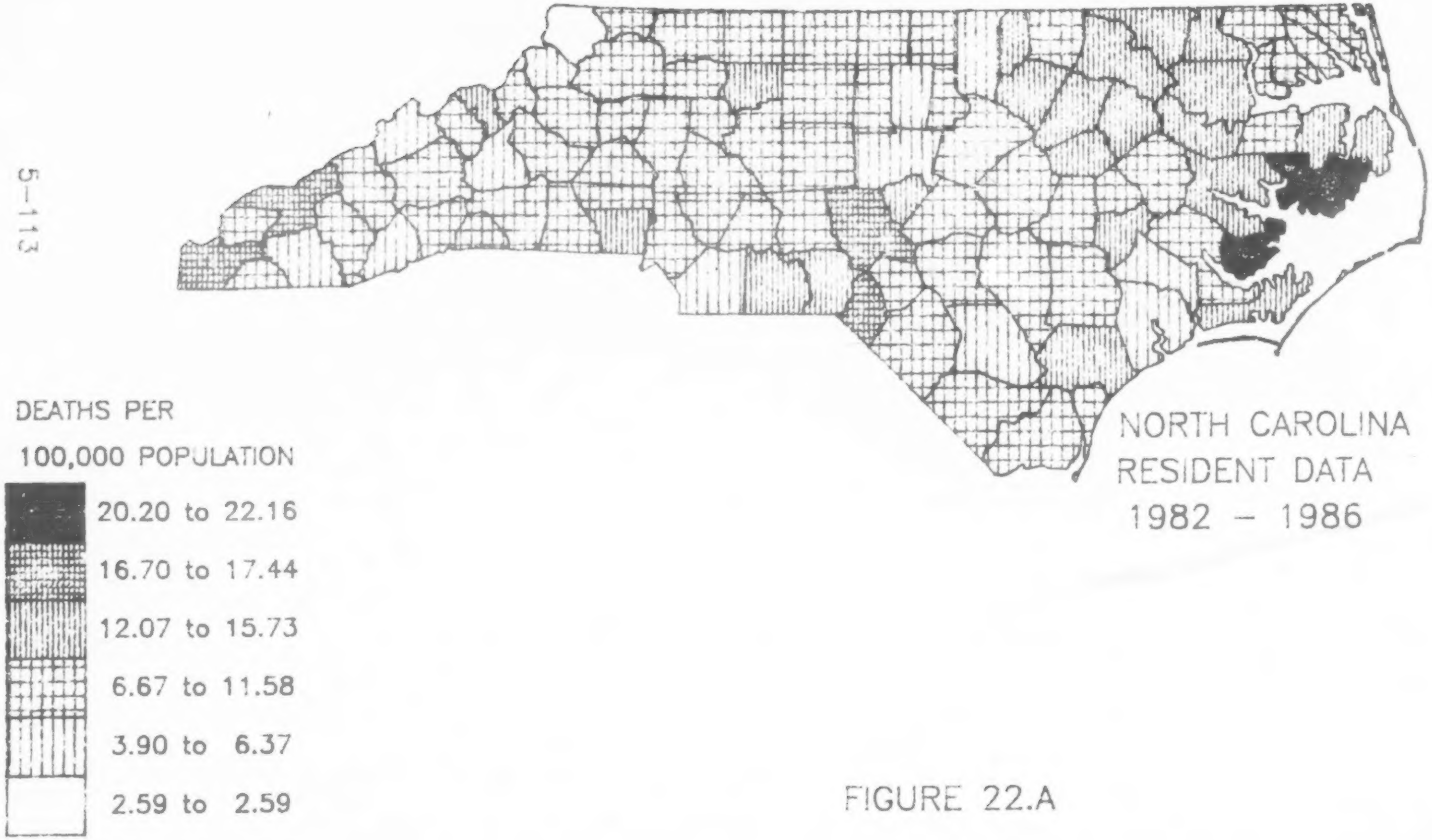

DEATHS PER
100,000 POPULATION
20.20 to 22.16
16.70 to 17.44
12.07 to 15.73
6.67 to 11.58
3.90 to 6.37
2.59 to 2.59
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 22.A

CHRONIC LIVER DISEASE AND CIRRHOSIS

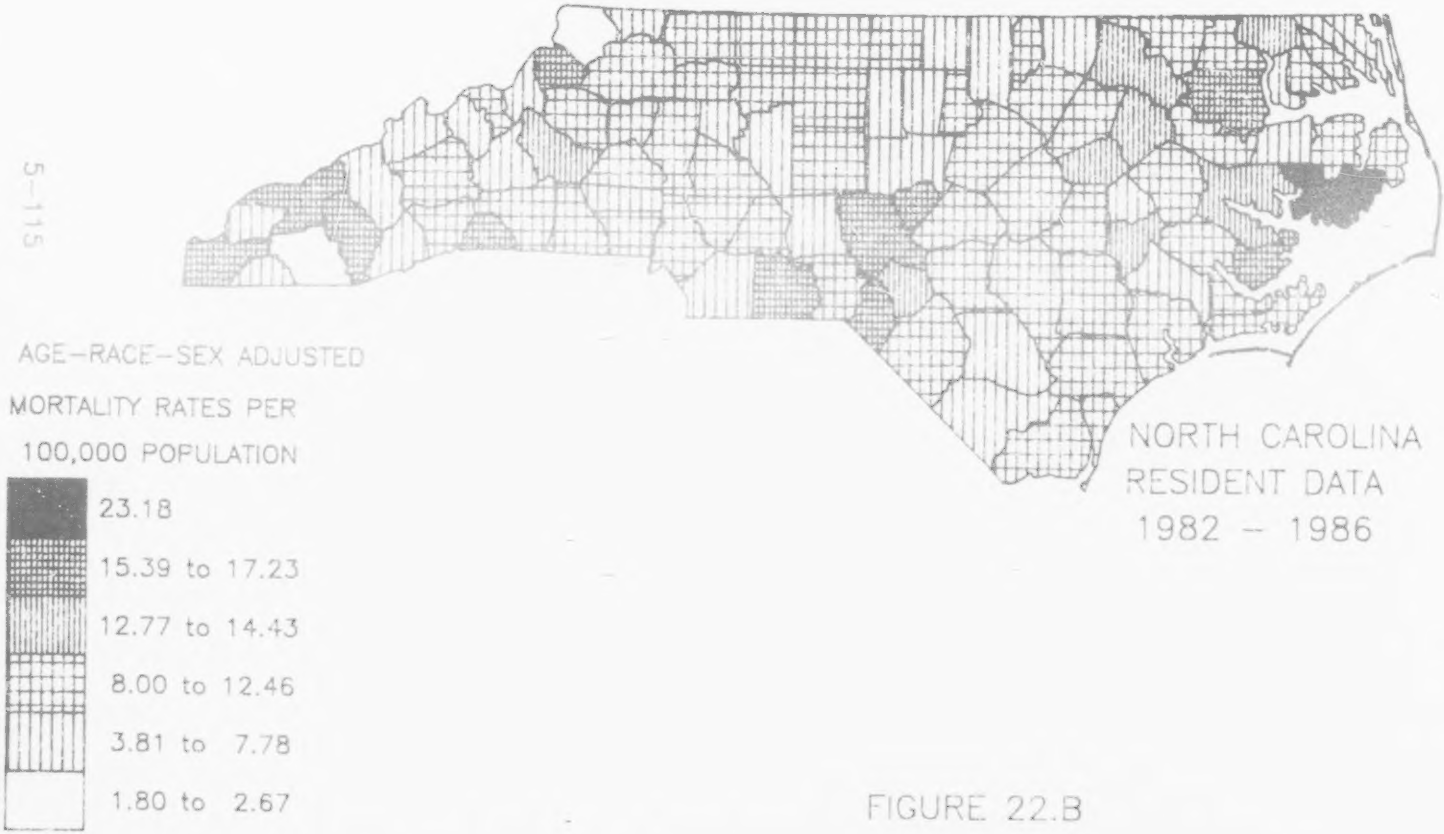

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
23.18
15.39 to 17.23
12.77 to 14.43
8.00 to 12.46
3.81 to 7.78
1.80 to 2.67
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 22.B

TABLE 23

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

NEPHRITIS, NEPHROTIC SYNDROME AND NEPHROSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	543	8.57	2760	8.94	8.94
REGIONS					
DHR I WESTERN	177	8.17	916	8.66	9.08
DHR II N. CENTRAL	120	9.00	566	8.66	8.41
DHR III S. CENTRAL	119	7.99	614	8.53	9.25
DHR IV EASTERN	127	9.44	664	10.12	9.24
HSA I WESTERN	95	8.80	450	8.49	8.55
HSA II PIEDMONT	96	8.16	460	7.97	8.09
HSA III S. PIEDMONT	82	7.54	466	8.84	9.60
HSA IV CAPITAL	92	9.89	408	9.23	9.30
HSA V CARDINAL	75	7.84	423	9.02	9.22
HSA VI EASTERN	103	9.32	553	10.22	9.27
COUNTIES					
1 ALAMANCE	13	12.59	46	9.05	8.13
2 ALEXANDER	1	3.72	6	4.54	6.13
3 ALLEGHANY	1	10.28	7	14.29	8.77
4 ANSON	0	0.00	16	12.26	8.40
5 ASHE	3	12.90	15	12.94	7.23
6 AVERY	1	6.65	5	6.69	5.62
7 BEAUFORT	7	16.13	23	10.78	7.59
8 BERTIE	2	9.41	21	19.67	15.37
9 BLADEN	5	16.22	29	18.87	15.25
10 BRUNSWICK	1	2.09	11	5.07	5.12
11 BUNCOMBE	11	6.47	56	6.72	5.44
12 BURKE	5	6.57	26	6.94	7.90
13 CABARRUS	5	5.38	36	7.89	8.69
14 CALDWELL	2	2.85	27	7.83	11.10
15 CAMDEN	0	0.00	6	20.64	16.08
16 CARTERET	1	1.98	12	5.08	5.45
17 CASWELL	1	4.44	9	8.19	7.72
18 CATAWBA	11	9.63	42	7.56	9.89
19 CHATHAM	4	11.10	19	10.82	9.43
20 CHEROKEE	0	0.00	4	4.01	2.16
21 CHOWAN	2	14.93	7	10.80	6.73
22 CLAY	0	0.00	4	11.35	5.40
23 CLEVELAND	8	9.27	37	8.72	8.59
24 COLUMBUS	12	22.94	36	13.87	12.39
25 CRAVEN	9	11.22	40	10.39	13.00
26 CUMBERLAND	10	3.92	58	4.57	8.52
27 CURRITUCK	1	7.48	2	3.15	2.93
28 DARE	2	10.69	6	7.26	9.78
29 DAVIDSON	8	6.71	60	10.26	12.27
30 DAVIE	5	17.59	12	8.74	8.65
31 DUPLIN	5	11.99	29	13.97	10.41
32 DURHAM	20	12.05	92	11.48	10.23
33 EDGECOMBE	4	6.77	32	11.07	8.45
34 FORSYTH	16	6.13	103	8.07	7.79
35 FRANKLIN	7	20.48	20	12.44	7.62
36 GASTON	11	6.40	80	9.47	11.41
37 GATES	3	31.39	9	19.39	10.18
38 GRAHAM	0	0.00	3	8.40	5.60
39 GRANVILLE	3	7.95	31	17.05	12.52
40 GREENE	2	12.05	4	4.86	5.19
41 GUILFORD	23	6.97	106	6.52	6.67

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
NEPHRITIS, NEPHROTIC SYNDROME AND NEPHROSIS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	7	12.49	38	13.61	9.17
43 HARNETT	6	9.37	32	10.24	10.92
44 HAYWOOD	7	14.44	22	9.25	5.54
45 HENDERSON	12	17.85	34	10.51	6.71
46 HERTFORD	1	4.15	15	12.57	8.05
47 HOKE	1	4.32	6	5.35	3.92
48 HYDE	0	0.00	5	16.83	13.14
49 IREDELL	9	10.17	45	10.42	10.68
50 JACKSON	3	11.28	16	11.90	16.54
51 JOHNSTON	7	8.95	38	10.11	9.95
52 JONES	1	10.18	5	10.20	11.58
53 LEE	7	16.90	37	18.77	18.84
54 LENOIR	16	26.56	42	13.91	11.31
55 LINCOLN	3	6.48	19	8.52	12.33
56 MCDOWELL	5	13.80	18	9.94	9.53
57 MACON	2	8.66	11	9.74	4.75
58 MADISON	0	0.00	6	6.97	4.12
59 MARTIN	1	3.74	16	12.05	8.34
60 MECKLENBURG	36	7.94	169	7.78	8.86
61 MITCHELL	2	13.75	5	6.94	3.85
62 MONTGOMERY	4	16.77	16	13.62	11.72
63 MOORE	7	12.49	25	9.27	7.01
64 NASH	1	1.40	38	10.83	9.40
65 NEW HANOVER	9	7.84	55	9.94	10.13
66 NORTHAMPTON	5	22.22	19	16.93	12.34
67 ONSLOW	5	3.99	32	5.33	12.53
68 ORANGE	5	5.90	22	5.41	6.49
69 PAMLICO	0	0.00	3	5.54	5.07
70 PASQUOTANK	6	20.09	17	11.69	9.42
71 PENDER	2	7.93	9	7.53	5.59
72 PERQUIMANS	2	18.98	10	19.98	9.48
73 PERSON	2	6.52	9	5.97	5.30
74 PITT	6	6.15	34	7.13	6.45
75 POLK	2	13.80	9	12.69	8.84
76 RANDOLPH	7	7.06	41	8.53	11.89
77 RICHMOND	5	10.81	36	15.74	13.44
78 ROBESON	9	8.48	57	10.83	9.14
79 ROCKINGHAM	9	10.52	35	8.21	7.73
80 ROWAN	13	12.43	53	10.34	8.69
81 RUTHERFORD	4	7.03	31	11.04	10.13
82 SAMPSON	4	7.94	23	9.16	7.56
83 SCOTLAND	0	0.00	14	8.34	8.23
84 STANLY	4	7.95	25	10.09	10.16
85 STOKES	1	2.80	10	5.71	6.33
86 SURRY	8	12.99	24	7.91	6.56
87 SWAIN	3	27.42	11	20.55	14.72
88 TRANSYLVANIA	1	3.82	8	6.37	11.36
89 TYRRELL	0	0.00	1	4.82	7.88
90 UNION	1	1.25	39	10.20	12.09
91 VANCE	4	10.32	21	11.08	8.18
92 WAKE	25	6.83	94	5.53	7.40
93 WARREN	8	48.62	25	30.52	14.98
94 WASHINGTON	3	20.63	9	12.42	9.39
95 WATAUGA	3	8.70	10	5.89	9.88
96 WAYNE	6	6.15	48	9.79	9.85
97 WILKES	7	11.52	33	10.94	12.37
98 WILSON	5	7.74	30	9.34	9.42
99 YADKIN	5	16.86	14	9.53	8.75
100 YANCEY	1	6.31	4	5.17	3.50

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

NEPHRITIS, NEPHROTIC SYNDROME, NEPHROSIS

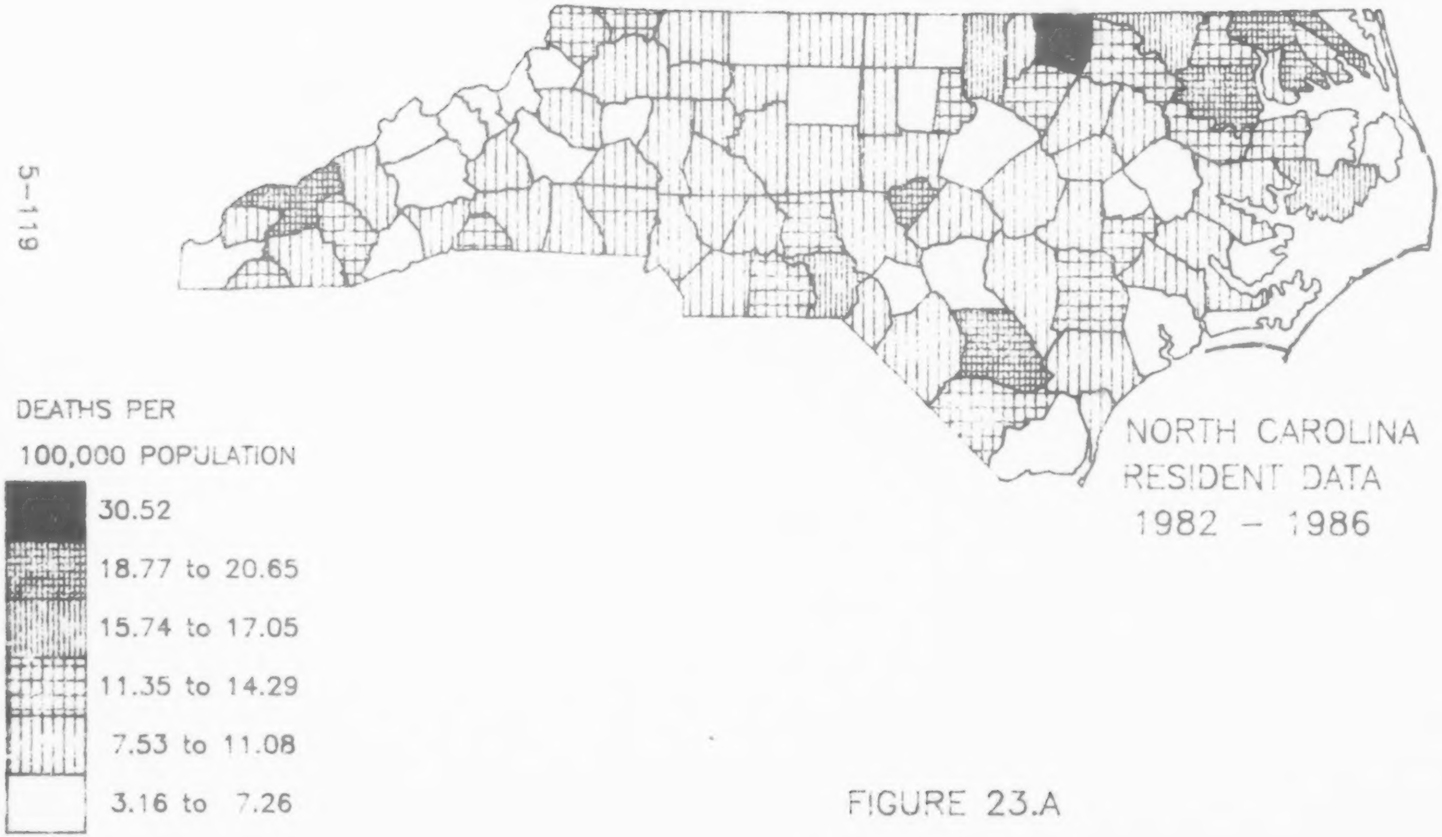

DEATHS PER
100,000 POPULATION
■ 30.52
▦ 18.77 to 20.65
▥ 15.74 to 17.05
▦ 11.35 to 14.29
▥ 7.53 to 11.08
☐ 3.16 to 7.26
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 23.A

NEPHRITIS, NEPHROTIC SYNDROME, NEPHROSIS

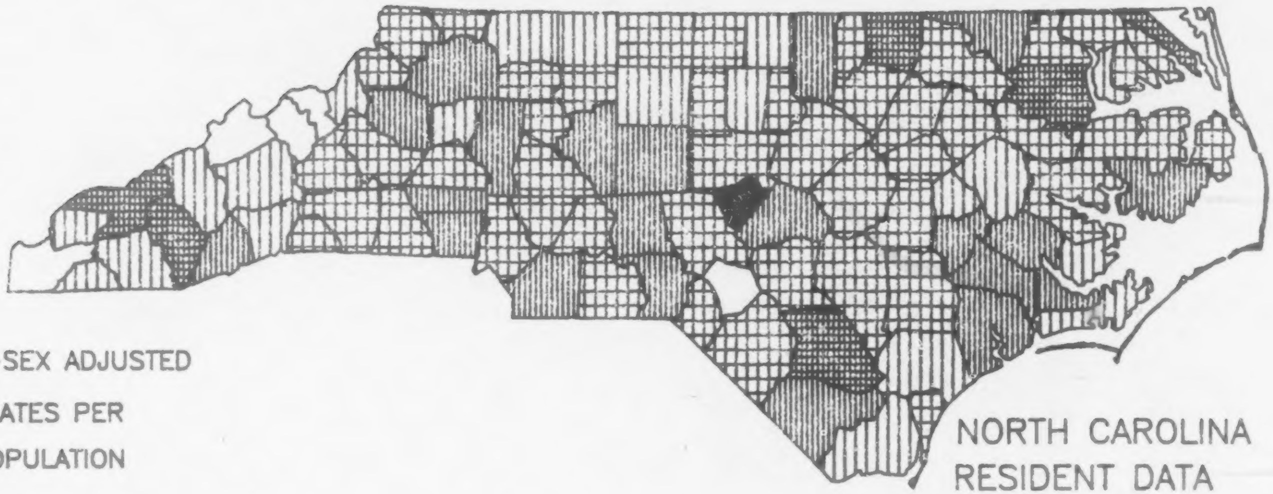

NORTH CAROLINA
RESIDENT DATA
1982 - 1986
AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
■ 18.84
▦ 14.72 to 16.54
▥ 10.69 to 13.45
⊞ 7.01 to 10.42
▥ 4.76 to 6.74
☐ 2.16 to 4.13

FIGURE 23.B

TABLE 24

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

MOTOR VEHICLE ACCIDENTS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	1700	26.85	7339	23.78	23.78
REGIONS					
DHR I WESTERN	526	24.28	2309	21.85	21.98
DHR II N. CENTRAL	351	26.33	1447	22.14	22.50
DHR III S. CENTRAL	432	29.03	1839	25.57	24.93
DHR IV EASTERN	391	29.08	1744	26.58	26.11
HSA I WESTERN	285	26.41	1229	23.19	23.74
HSA II PIEDMONT	290	24.67	1223	21.19	21.51
HSA III S. PIEDMONT	241	22.16	1080	20.50	20.85
HSA IV CAPITAL	254	27.31	990	22.40	21.98
HSA V CARDINAL	330	34.53	1413	30.15	29.89
HSA VI EASTERN	300	27.16	1404	25.95	25.22
COUNTIES					
1 ALAMANCE	21	20.34	98	19.28	19.88
2 ALEXANDER	7	26.10	44	33.35	36.47
3 ALLEGHANY	0	0.00	14	28.58	55.92
4 ANSON	7	26.59	32	24.53	22.60
5 ASHE	5	21.50	20	17.25	14.25
6 AVERY	5	33.27	16	21.42	16.81
7 BEAUFORT	13	29.95	51	23.90	25.40
8 BERTIE	7	32.93	44	41.23	43.79
9 BLADEN	11	35.68	45	29.28	28.50
10 BRUNSWICK	24	50.21	84	38.73	39.53
11 BUNCOMBE	38	22.35	150	18.01	18.49
12 BURKE	14	18.42	83	22.18	20.55
13 CABARRUS	20	21.54	104	22.81	23.17
14 CALDWELL	17	24.23	80	23.21	23.88
15 CAMDEN	3	51.18	9	30.97	31.43
16 CARTERET	12	23.80	43	18.23	20.94
17 CASWELL	9	40.01	39	35.53	30.67
18 CATAWBA	35	30.66	155	27.92	28.84
19 CHATHAM	9	24.98	55	31.34	29.97
20 CHEROKEE	7	34.37	19	19.08	26.34
21 CHOWAN	3	22.40	20	30.85	32.66
22 CLAY	3	41.60	9	25.54	19.90
23 CLEVELAND	22	25.51	117	27.59	28.35
24 COLUMBUS	28	53.54	114	43.92	44.99
25 CRAVEN	18	22.44	87	22.60	22.53
26 CUMBERLAND	58	22.75	334	26.34	25.36
27 CURRITUCK	6	44.89	17	26.83	27.89
28 DARE	5	26.73	24	29.04	30.00
29 DAVIDSON	31	26.02	144	24.64	24.62
30 DAVIE	9	31.67	30	21.85	20.21
31 DUPLIN	12	28.78	67	32.29	35.21
32 DURHAM	28	16.88	121	15.10	14.36
33 EDGECOMBE	11	18.62	73	25.26	25.64
34 FORSYTH	38	14.56	188	14.73	15.02
35 FRANKLIN	11	32.18	53	32.98	33.80
36 GASTON	55	32.01	189	22.38	23.58
37 GATES	6	62.78	20	43.09	49.53
38 GRAHAM	1	13.94	7	19.61	47.43
39 GRANVILLE	15	39.79	54	29.71	31.40
40 GREENE	3	18.08	31	37.71	31.16
41 GUILFORD	78	23.64	321	19.77	20.23

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
MOTOR VEHICLE ACCIDENTS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE* 1982-86
42 HALIFAX	11	19.63	77	27.59	23.27
43 HARNETT	25	39.05	108	34.58	34.75
44 HAYWOOD	15	30.94	50	21.02	23.34
45 HENDERSON	17	25.28	80	24.73	22.93
46 HERTFORD	13	54.06	37	31.02	25.57
47 HOKE	3	12.96	24	21.40	18.14
48 HYDE	2	33.84	8	26.93	25.59
49 IREDELL	20	22.61	111	25.70	26.16
50 JACKSON	6	22.57	19	14.13	17.26
51 JOHNSTON	32	40.92	136	36.20	37.58
52 JONES	5	50.94	15	30.62	28.55
53 LEE	20	48.29	60	30.43	31.15
54 LENOIR	16	26.56	80	26.51	29.65
55 LINCOLN	12	25.93	70	31.39	32.04
56 MCDOWELL	11	30.36	43	23.76	23.66
57 MACON	4	17.32	24	21.26	17.51
58 MADISON	3	17.28	20	23.25	17.86
59 MARTIN	5	18.71	38	28.63	26.30
60 MECKLENBURG	80	17.65	345	15.89	16.33
61 MITCHELL	3	20.63	25	34.72	26.26
62 MONTGOMERY	8	33.54	37	31.50	32.78
63 MOORE	19	33.92	98	36.36	37.36
64 NASH	24	33.68	101	28.79	29.64
65 NEW HANOVER	31	27.03	108	19.53	19.56
66 NORTHAMPTON	10	44.45	36	32.07	28.02
67 ONSLOW	35	27.97	144	24.00	22.45
68 ORANGE	26	30.68	85	20.91	20.79
69 PAMLICO	2	18.09	24	44.32	49.39
70 PASQUOTANK	7	23.44	24	16.51	16.66
71 PENDER	8	31.74	34	28.45	28.66
72 PERQUIMANS	0	0.00	13	25.98	25.94
73 PERSON	7	22.83	32	21.23	21.40
74 PITT	19	19.50	87	18.25	18.28
75 POLK	4	27.61	20	28.21	25.54
76 RANDOLPH	31	31.29	127	26.44	29.43
77 RICHMOND	13	28.12	64	27.98	29.12
78 ROBESON	52	49.01	184	34.98	29.47
79 ROCKINGHAM	40	46.77	129	30.29	30.71
80 ROWAN	24	22.96	125	24.40	24.37
81 RUTHERFORD	23	40.43	78	27.78	28.89
82 SAMPSON	25	49.68	92	36.67	37.85
83 SCOTLAND	18	53.35	55	32.79	36.28
84 STANLY	7	13.92	43	17.35	17.67
85 STOKES	12	33.69	55	31.40	36.94
86 SURRY	17	27.62	54	17.79	17.99
87 SWAIN	4	36.56	13	24.29	26.30
88 TRANSYLVANIA	10	38.26	26	20.71	18.70
89 TYRRELL	1	24.46	6	28.93	29.18
90 UNION	23	28.81	93	24.32	25.80
91 VANCE	21	54.20	58	30.61	34.76
92 WAKE	78	21.31	309	18.20	17.91
93 WARREN	7	42.54	27	32.96	26.56
94 WASHINGTON	11	75.64	24	33.13	39.21
95 WATAUGA	9	26.10	25	14.73	11.10
96 WAYNE	22	22.58	101	20.60	21.68
97 WILKES	19	31.28	72	23.86	30.37
98 WILSON	18	27.87	103	32.07	32.86
99 YADKIN	4	13.49	38	25.89	25.23
100 YANCEY	3	18.93	20	25.88	29.92

* SEE SECTION I

MOTOR VEHICLE ACCIDENTS

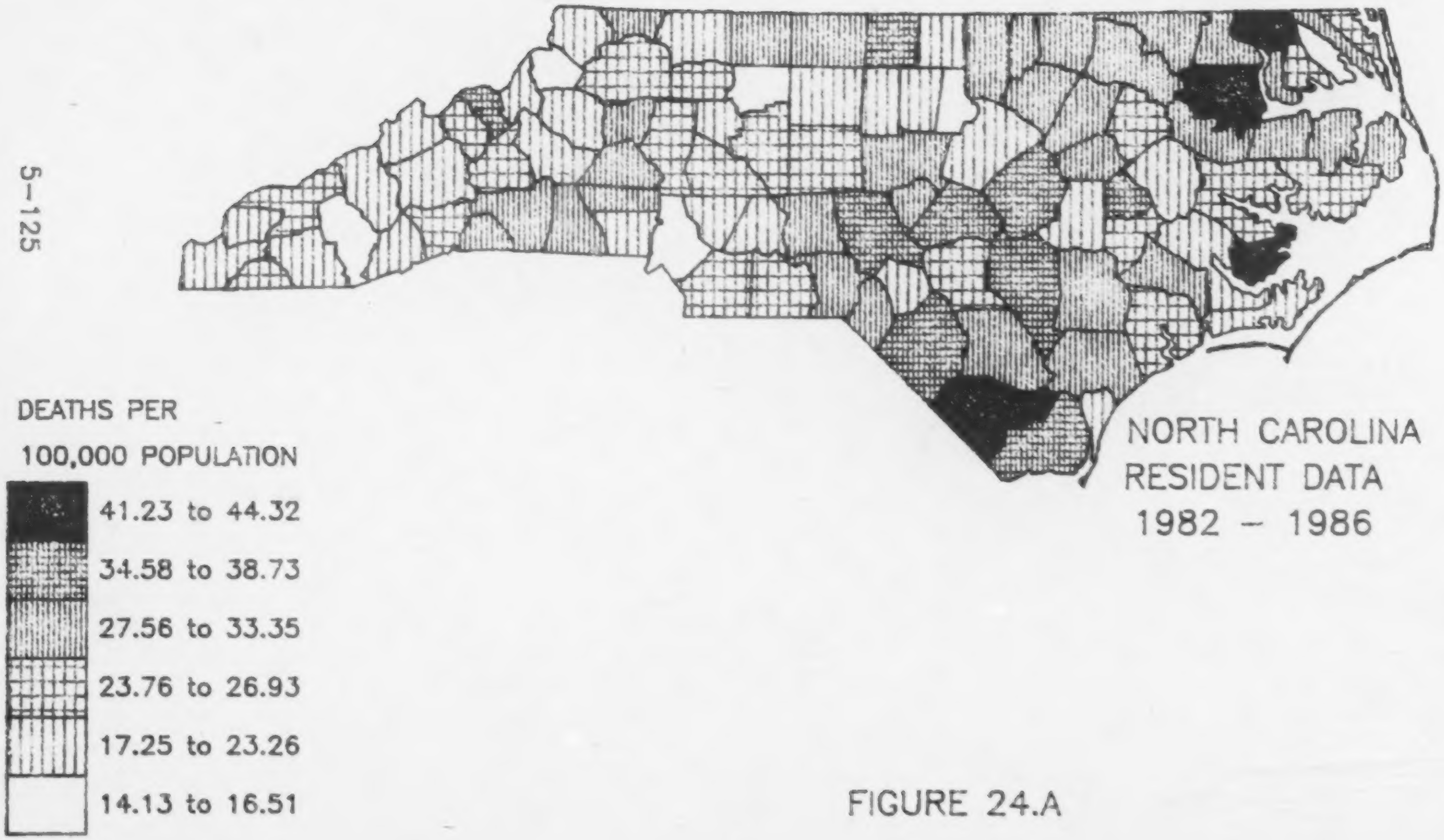

DEATHS PER
100,000 POPULATION
41.23 to 44.32
34.58 to 38.73
27.56 to 33.35
23.76 to 26.93
17.25 to 23.26
14.13 to 16.51
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 24.A

MOTOR VEHICLE ACCIDENTS

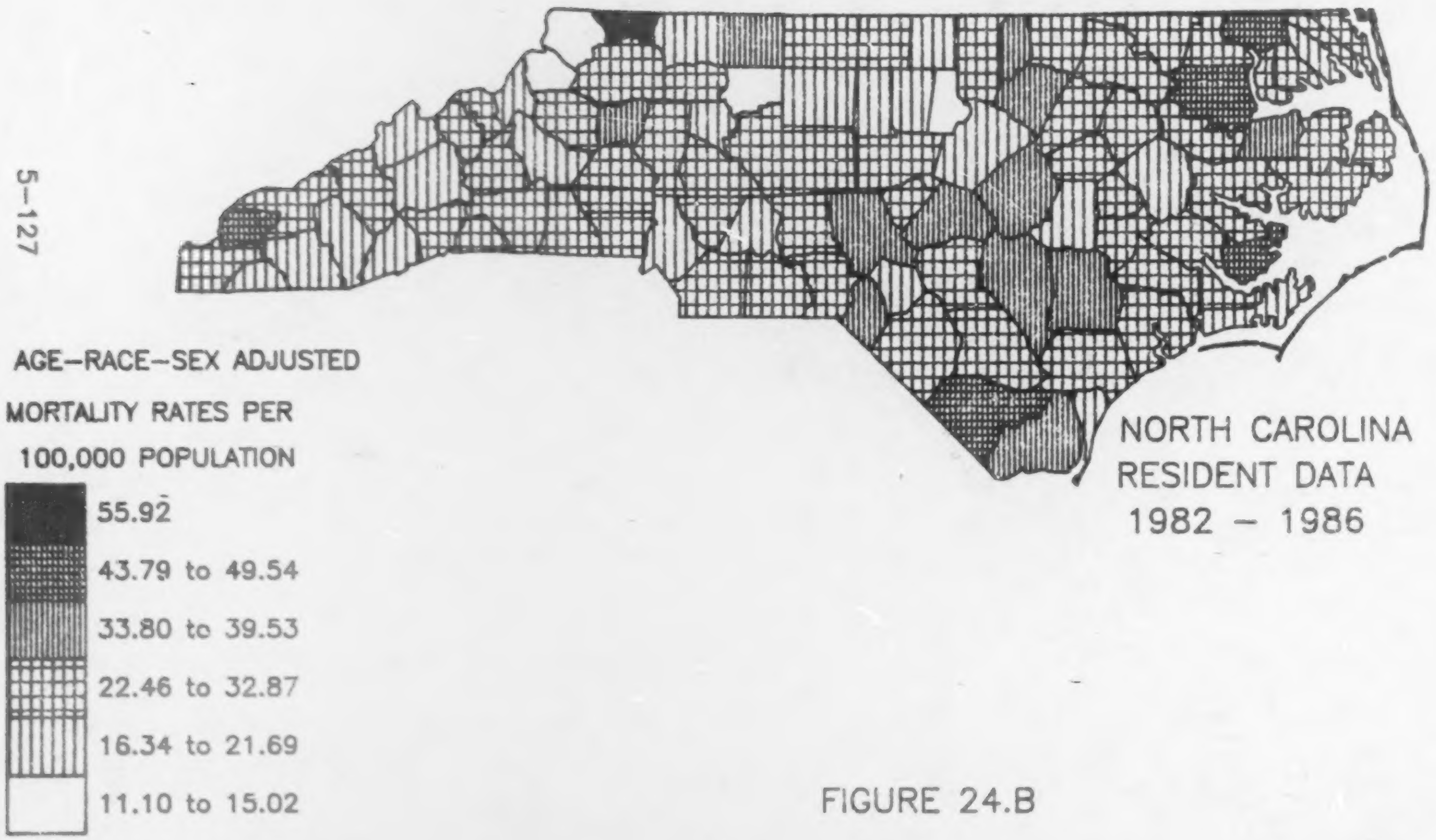

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
55.92
43.79 to 49.54
33.80 to 39.53
22.46 to 32.87
16.34 to 21.69
11.10 to 15.02
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 24.B

TABLE 25

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

ALL OTHER ACCIDENTS AND ADVERSE EFFECTS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	1477	23.32	7174	23.25	23.25
REGIONS					
DHR I WESTERN	483	22.29	2370	22.42	22.51
DHR II N. CENTRAL	295	22.12	1419	21.71	21.42
DHR III S. CENTRAL	344	23.12	1657	23.04	23.71
DHR IV EASTERN	355	26.40	1728	26.34	25.00
HSA I WESTERN	258	23.91	1235	23.30	22.95
HSA II PIEDMONT	253	21.52	1196	20.72	20.89
HSA III S. PIEDMONT	225	20.69	1135	21.54	22.19
HSA IV CAPITAL	205	22.04	970	21.95	22.24
HSA V CARDINAL	245	25.64	1205	25.72	25.60
HSA VI EASTERN	291	26.34	1433	26.48	24.87
COUNTIES					
1 ALAMANCE	20	19.37	115	22.63	22.28
2 ALEXANDER	9	33.56	25	18.95	19.64
3 ALLEGHANY	3	30.85	13	26.54	18.79
4 ANSON	11	41.78	47	36.03	31.94
5 ASHE	3	12.90	25	21.56	14.08
6 AVERY	2	13.30	17	22.76	76.87 *
7 BEAUFORT	16	36.86	76	35.62	32.91
8 BERTIE	5	23.52	38	35.60	18.33
9 BLADEN	11	35.68	47	30.58	27.63
10 BRUNSWICK	7	14.64	53	24.43	24.53
11 BUNCOMBE	52	30.58	222	26.66	24.70
12 BURKE	13	17.10	74	19.77	21.53
13 CABARRUS	12	12.92	94	20.61	20.60
14 CALDWELL	9	12.83	60	17.41	17.48
15 CAMDEN	1	17.06	7	24.09	20.69
16 CARTERET	9	17.85	49	20.77	23.25
17 CASWELL	7	31.12	26	23.68	21.03
18 CATAWBA	31	27.15	99	17.83	18.72
19 CHATHAM	13	36.09	58	33.05	30.55
20 CHEROKEE	5	24.55	18	18.07	12.90
21 CHOWAN	6	44.81	19	29.31	25.17
22 CLAY	1	13.86	10	28.38	19.32
23 CLEVELAND	19	22.03	99	23.34	23.53
24 COLUMBUS	23	43.98	88	33.90	32.06
25 CRAVEN	15	18.70	78	20.26	20.75
26 CUMBERLAND	49	19.21	270	21.29	26.10
27 CURRITUCK	0	0.00	10	15.78	14.26
28 DARE	5	26.73	31	37.52	35.16
29 DAVIDSON	26	21.83	111	18.99	20.32
30 DAVIE	7	24.63	21	15.29	15.68
31 DUPLIN	9	21.59	60	28.92	25.14
32 DURHAM	39	23.51	201	25.08	24.09
33 EDGECOMBE	20	33.85	97	33.56	31.92
34 FORSYTH	61	23.38	259	20.30	19.88
35 FRANKLIN	5	14.63	46	28.62	23.21
36 GASTON	41	23.86	187	22.14	22.93
37 GATES	4	41.85	12	25.85	21.75
38 GRAHAM	4	55.76	15	42.03	71.19
39 GRANVILLE	7	18.56	49	26.96	23.65
40 GREENE	5	30.14	28	34.06	35.05
41 GUILFORD	62	18.79	326	20.08	19.67

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
ALL OTHER ACCIDENTS AND ADVERSE EFFECTS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	19	33.91	86	31.53	24.11
43 HARNETT	21	32.80	78	24.97	25.68
44 HAYWOOD	15	30.94	55	23.13	15.84
45 HENDERSON	13	19.33	75	23.18	20.27
46 HERTFORD	16	66.53	52	43.60	35.56
47 HOKE	3	12.96	20	17.83	18.15
48 HYDE	3	50.77	12	40.40	32.48
49 IREDELL	24	27.14	119	27.56	27.77
50 JACKSON	3	11.28	34	25.29	26.93
51 JOHNSTON	26	33.25	111	29.55	30.26
52 JONES	3	30.56	14	28.58	23.53
53 LEE	12	28.97	44	22.32	22.38
54 LENOIR	16	26.56	75	24.85	20.44
55 LINCOLN	12	25.93	51	22.87	22.86
56 MCDOWELL	8	22.08	47	25.97	26.18
57 MACON	3	12.99	27	23.92	14.88
58 MADISON	4	23.04	31	36.05	24.10
59 MARTIN	8	29.94	43	32.40	31.13
60 MECKLENBURG	87	19.20	404	18.61	19.47
61 MITCHELL	3	20.63	23	31.94	20.63
62 MONTGOMERY	6	25.15	35	29.79	27.32
63 MOORE	18	32.13	71	26.34	24.13
64 NASH	25	35.09	100	28.50	26.06
65 NEW HANOVER	23	20.06	115	20.80	21.84
66 NORTHAMPTON	6	26.67	40	35.64	22.33
67 ONSLOW	25	19.97	115	19.17	21.41
68 ORANGE	11	12.98	59	14.51	16.35
69 PAMLICO	3	27.14	21	38.78	32.80
70 PASQUOTANK	4	13.39	36	24.77	23.34
71 PENDER	11	43.65	39	32.63	31.18
72 PERQUIMANS	4	37.97	15	29.97	29.01
73 PERSON	9	29.36	31	20.57	18.79
74 PITT	21	21.55	102	21.40	22.01
75 POLK	4	27.61	21	29.62	18.91
76 RANDOLPH	11	11.10	87	18.11	20.04
77 RICHMOND	6	12.97	60	26.23	25.77
78 ROBESON	37	34.87	165	31.37	27.53
79 ROCKINGHAM	21	24.55	104	24.42	24.06
80 ROWAN	27	25.83	149	29.09	26.94
81 RUTHERFORD	17	29.88	66	23.51	23.23
82 SAMPSON	11	21.85	81	32.29	29.12
83 SCOTLAND	8	23.71	36	21.46	20.01
84 STANLY	13	25.85	68	27.45	25.23
85 STOKES	12	33.69	35	19.98	25.14
86 SURRY	13	21.12	69	22.74	26.77
87 SWAIN	4	36.56	26	48.59	49.36
88 TRANSYLVANIA	4	15.30	17	13.54	9.38
89 TYRRELL	1	24.46	6	28.93	27.13
90 UNION	9	11.27	63	16.47	18.73
91 VANCE	14	36.13	67	35.36	31.08
92 WAKE	62	16.93	274	16.14	18.82
93 WARREN	7	42.54	30	36.62	29.79
94 WASHINGTON	2	13.75	25	34.51	34.09
95 WATAUGA	10	29.00	35	20.63	16.58
96 WAYNE	19	19.50	105	21.42	20.61
97 WILKES	15	24.70	73	24.20	24.38
98 WILSON	21	32.52	79	24.60	22.94
99 YADKIN	13	43.85	43	29.29	34.19
100 YANCEY	4	25.24	28	36.24	47.31*

* SEE SECTION I

ALL OTHER ACCIDENTS AND ADVERSE EFFECTS

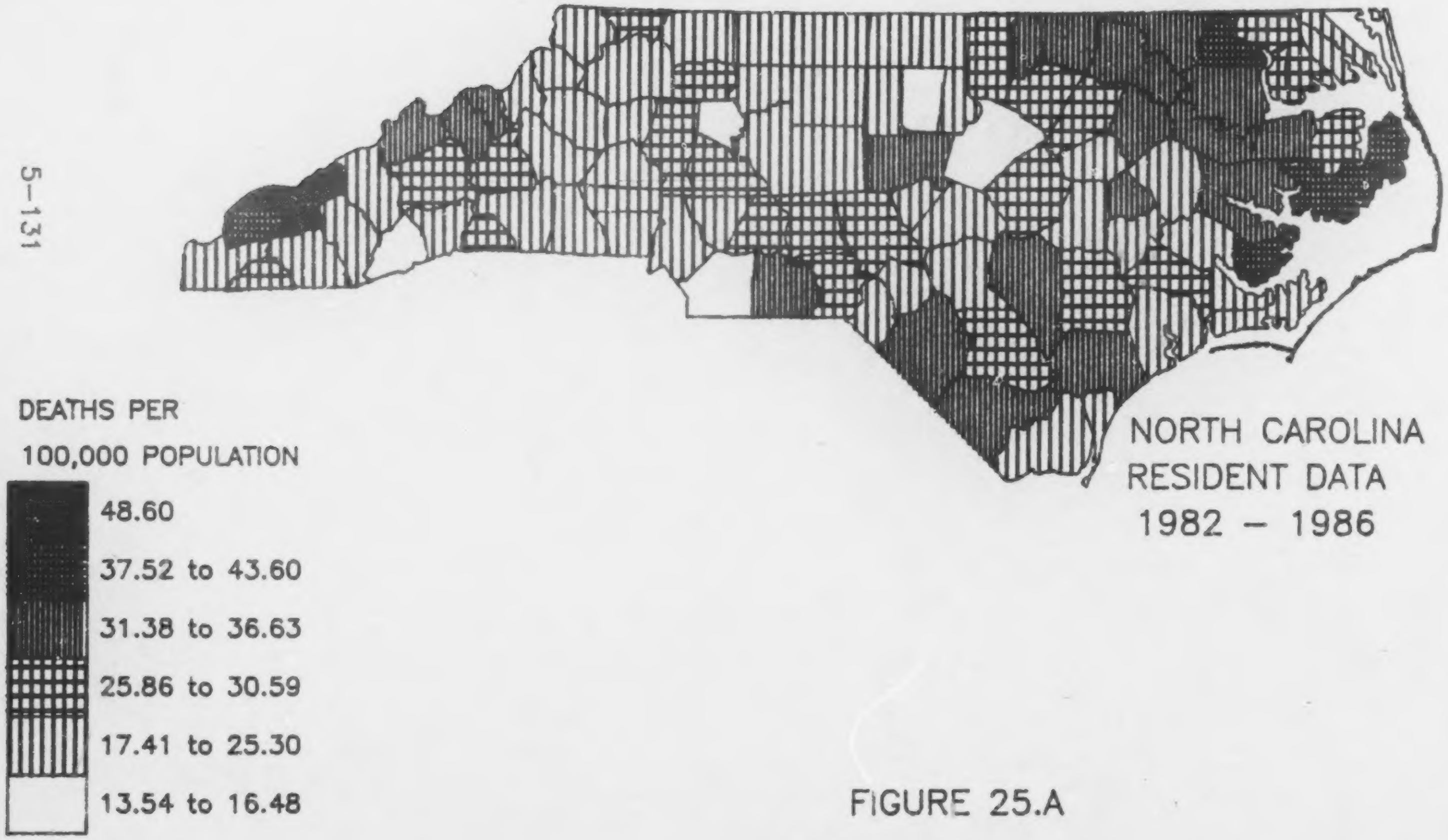

DEATHS PER
100,000 POPULATION
48.60
37.52 to 43.60
31.38 to 36.63
25.86 to 30.59
17.41 to 25.30
13.54 to 16.48
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 25.A

ALL OTHER ACCIDENTS AND ADVERSE EFFECTS

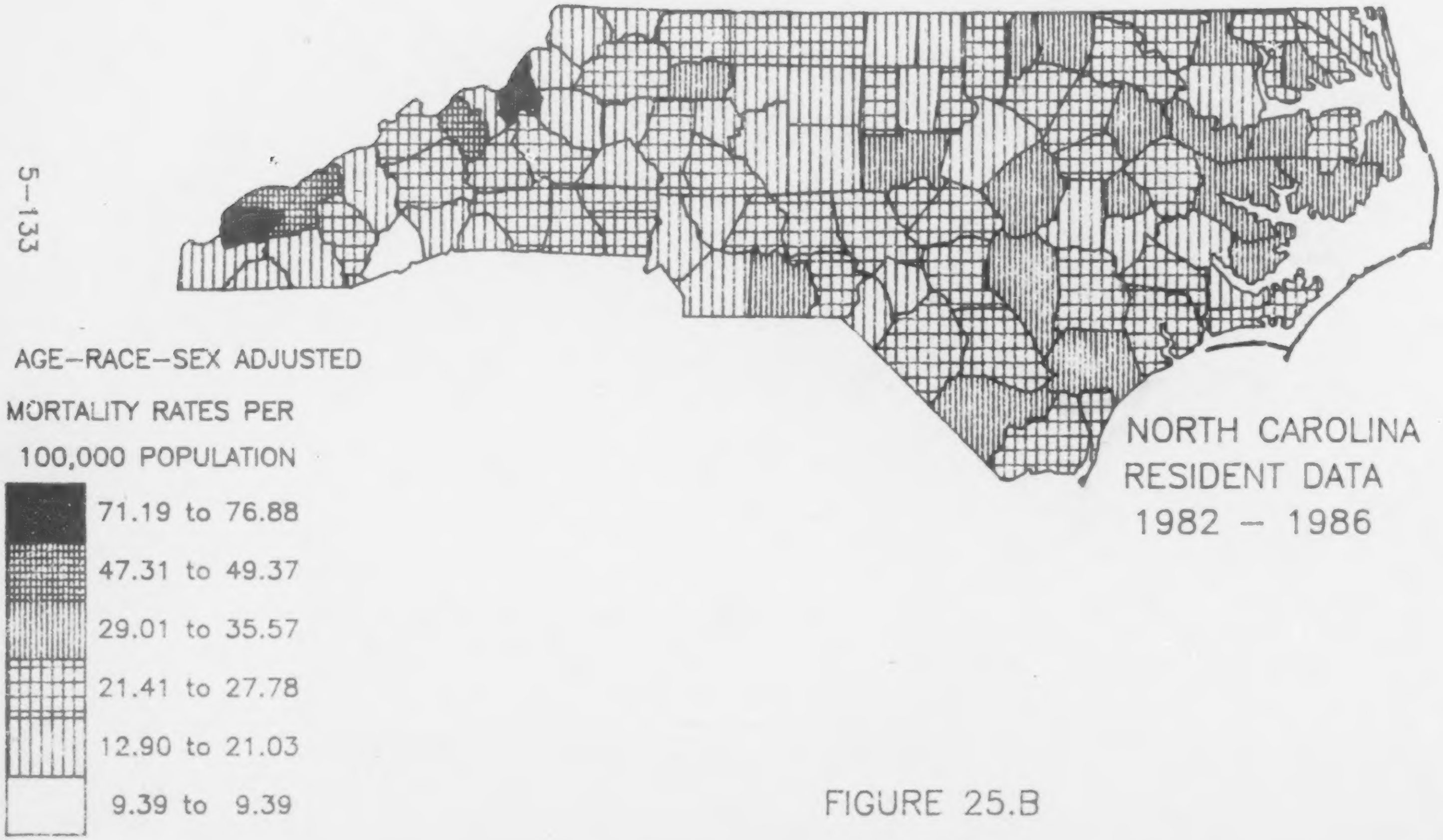

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
71.19 to 76.88
47.31 to 49.37
29.01 to 35.57
21.41 to 27.78
12.90 to 21.03
9.39 to 9.39
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 25.B

TABLE 26

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

SUICIDE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	771	12.17	3929	12.73	12.73
REGIONS					
DHR I WESTERN	284	13.11	1419	13.42	12.45
DHR II N. CENTRAL	178	13.35	896	13.71	13.45
DHR III S. CENTRAL	166	11.15	840	11.68	12.70
DHR IV EASTERN	143	10.63	774	11.80	12.90
HSA I WESTERN	159	14.73	782	14.75	13.38
HSA II PIEDMONT	154	13.10	793	13.74	13.23
HSA III S. PIEDMONT	125	11.49	637	12.09	11.81
HSA IV CAPITAL	97	10.43	529	11.97	12.49
HSA V CARDINAL	117	12.24	560	11.95	13.41
HSA VI EASTERN	119	10.77	628	11.60	12.96
COUNTIES					
1 ALAMANCE	14	13.56	76	14.95	14.22
2 ALEXANDER	7	26.10	24	18.19	17.61
3 ALLEGHANY	3	30.85	11	22.45	16.60
4 ANSON	7	26.59	23	17.63	24.61
5 ASHE	6	25.80	20	17.25	12.96
6 AVERY	0	0.00	6	8.03	6.41
7 BEAUFORT	0	0.00	25	11.71	12.57
8 BERTIE	4	18.82	14	13.11	16.00
9 BLADEN	5	16.22	14	9.11	10.52
10 BRUNSWICK	5	10.46	26	11.98	11.46
11 BUNCOMBE	27	15.88	148	17.77	16.24
12 BURKE	8	10.52	56	14.96	13.53
13 CABARRUS	13	14.00	66	14.47	13.72
14 CALDWELL	11	15.68	54	15.66	15.78
15 CAMDEN	1	17.06	3	10.32	12.28
16 CARTERET	7	13.88	20	8.48	6.80
17 CASWELL	1	4.44	11	10.02	11.86
18 CATAWBA	11	9.63	69	12.43	11.54
19 CHATHAM	7	19.43	17	9.68	9.60
20 CHEROKEE	3	14.73	14	14.06	10.44
21 CHOWAN	0	0.00	9	13.88	16.33
22 CLAY	2	27.73	6	17.03	11.53
23 CLEVELAND	8	9.27	45	10.61	10.47
24 COLUMBUS	5	9.56	36	13.87	14.56
25 CRAVEN	13	16.20	43	11.17	12.99
26 CUMBERLAND	28	10.98	138	10.88	13.23
27 CURRITUCK	1	7.48	9	14.20	12.41
28 DARE	1	5.34	12	14.52	10.71
29 DAVIDSON	10	8.39	74	12.66	11.33
30 DAVIE	3	10.55	21	15.29	13.66
31 DUPLIN	5	11.99	20	9.64	10.12
32 DURHAM	14	8.44	94	11.73	13.27
33 EDGECOMBE	6	10.15	32	11.07	14.12
34 FORSYTH	31	11.88	167	13.09	13.09
35 FRANKLIN	4	11.70	14	8.71	9.49
36 GASTON	17	9.89	98	11.60	10.72
37 GATES	0	0.00	3	6.46	9.55
38 GRAHAM	1	13.94	5	14.01	10.82
39 GRANVILLE	7	18.56	32	17.60	17.58
40 GREENE	2	12.05	11	13.38	14.97
41 GUILFORD	48	14.55	206	12.68	12.88

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
SUICIDE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	8	14.27	31	11.10	13.21
43 HARNETT	13	20.30	51	16.33	17.03
44 HAYWOOD	6	12.37	27	11.35	8.24
45 HENDERSON	9	13.38	58	17.93	16.21
46 HERTFORD	3	12.47	13	10.90	10.13
47 HOKE	1	4.32	9	8.02	9.78
48 HYDE	0	0.00	4	13.46	15.72
49 IREDELL	14	15.83	56	12.97	12.19
50 JACKSON	7	26.33	21	15.62	15.78
51 JOHNSTON	9	11.51	58	15.44	14.72
52 JONES	1	10.18	7	14.29	14.94
53 LEE	6	14.48	31	15.72	16.15
54 LENOIR	13	21.58	37	12.26	14.83
55 LINCOLN	1	2.16	27	12.10	12.74
56 MCDOWELL	6	16.56	21	11.60	14.32
57 MACON	5	21.65	18	15.95	12.17
58 MADISON	2	11.52	11	12.79	9.70
59 MARTIN	2	7.48	16	12.05	15.59
60 MECKLENBURG	45	9.93	231	10.64	11.14
61 MITCHELL	2	13.75	12	16.66	12.16
62 MONTGOMERY	2	8.38	14	11.91	11.87
63 MOORE	10	17.85	47	17.44	15.28
64 NASH	6	8.42	39	11.11	12.39
65 NEW HANOVER	10	8.72	64	11.57	11.48
66 NORTHAMPTON	3	13.33	10	8.91	11.47
67 ONSLOW	8	6.39	50	8.33	10.43
68 ORANGE	8	9.44	35	8.61	9.20
69 PAMLICO	2	18.09	6	11.08	11.42
70 PASQUOTANK	1	3.34	8	5.50	5.75
71 PENDER	4	15.87	20	16.73	17.68
72 PERQUIMANS	1	9.49	7	13.99	16.68
73 PERSON	6	19.57	34	22.56	23.18
74 PITT	7	7.18	71	14.89	17.86
75 POLK	0	0.00	8	11.28	12.15
76 RANDOLPH	15	15.14	65	13.53	12.05
77 RICHMOND	5	10.81	18	7.87	8.26
78 ROBESON	10	9.42	53	10.07	13.71
79 ROCKINGHAM	11	12.86	74	17.37	17.12
80 ROWAN	14	13.39	75	14.64	13.33
81 RUTHERFORD	7	12.30	38	13.53	12.22
82 SAMPSON	4	7.94	27	10.76	12.31
83 SCOTLAND	8	23.71	20	11.92	13.96
84 STANLY	11	21.87	44	17.76	16.85
85 STOKES	6	16.84	19	10.85	10.47
86 SURRY	10	16.24	55	18.12	15.84
87 SWAIN	2	18.28	8	14.95	12.89
88 TRANSYLVANIA	7	26.78	16	12.74	9.94
89 TYRRELL	0	0.00	2	9.64	11.06
90 UNION	10	12.52	40	10.46	10.61
91 VANCE	5	12.90	13	6.86	8.90
92 WAKE	29	7.92	191	11.25	11.00
93 WARREN	2	12.15	10	12.20	19.46
94 WASHINGTON	0	0.00	9	12.42	15.65
95 WATAUGA	4	11.60	23	13.55	11.20
96 WAYNE	12	12.31	57	11.62	12.99
97 WILKES	12	19.76	53	17.57	18.40
98 WILSON	12	18.58	60	18.68	20.80
99 YADKIN	5	16.86	25	17.03	18.09
100 YANCEY	3	18.93	10	12.94	21.03

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

SUICIDE

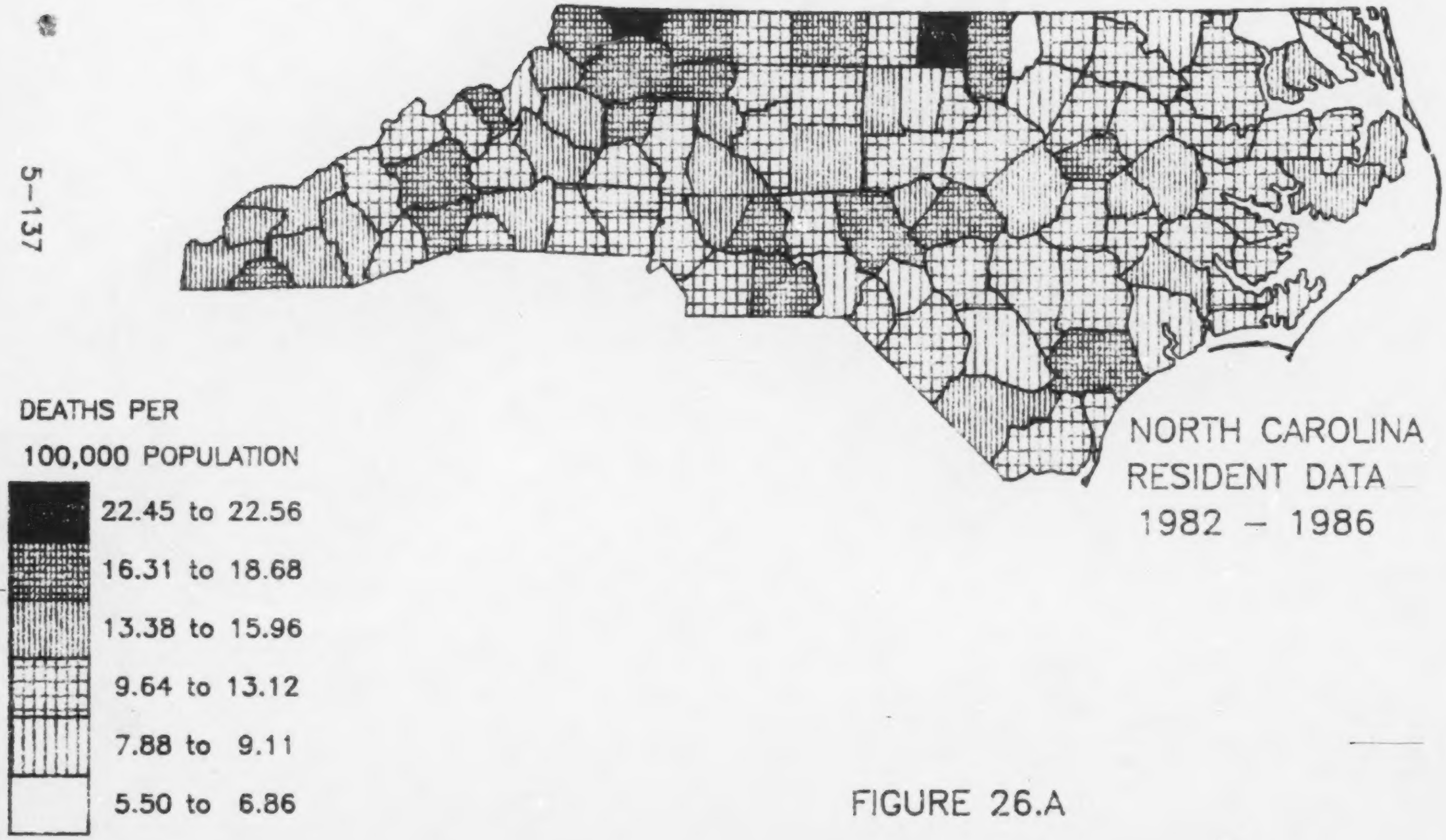

DEATHS PER
100,000 POPULATION
22.45 to 22.56
16.31 to 18.68
13.38 to 15.96
9.64 to 13.12
7.88 to 9.11
5.50 to 6.86
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 26.A

SUICIDE

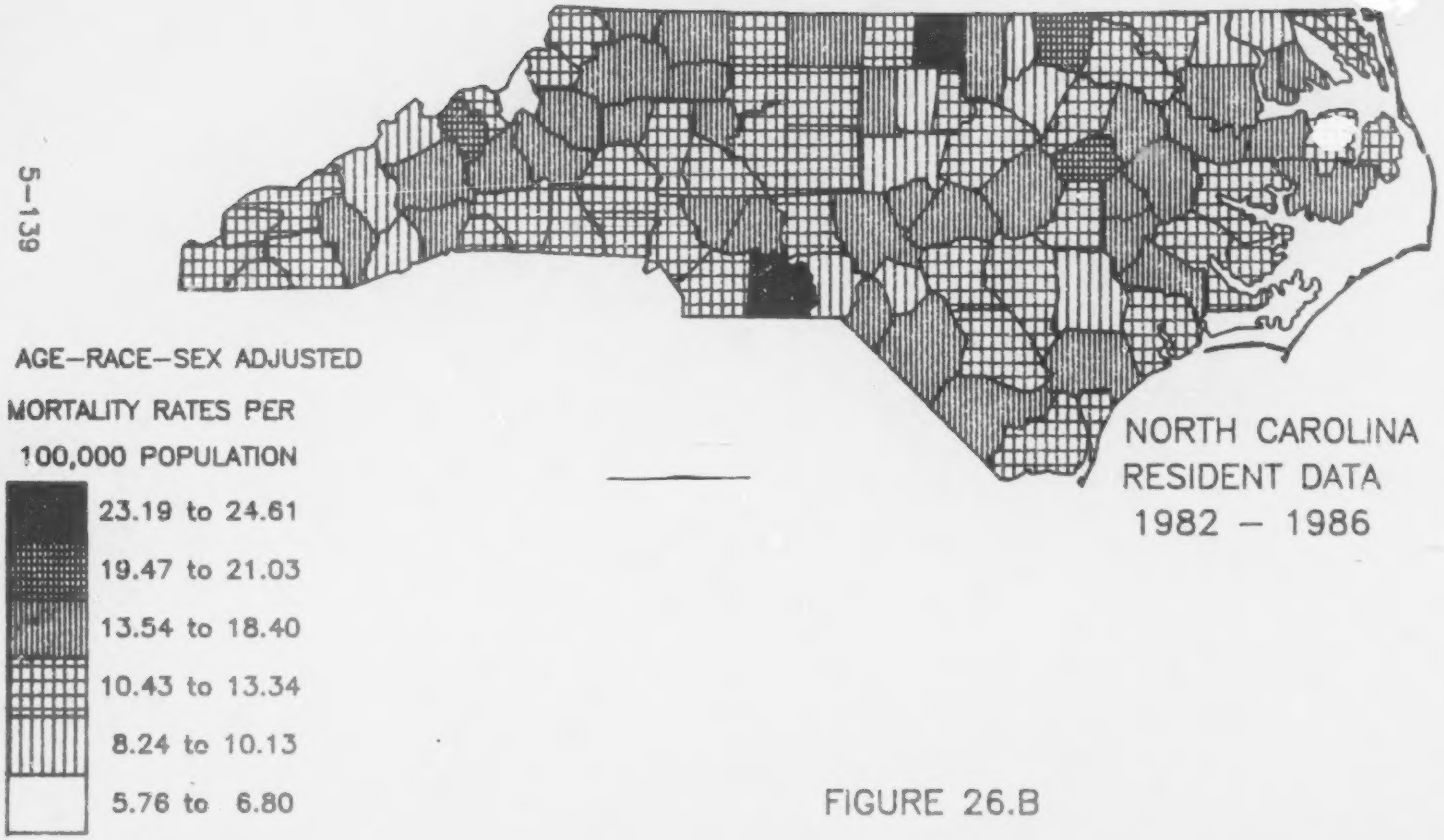

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
23.19 to 24.61
19.47 to 21.03
13.54 to 18.40
10.43 to 13.34
8.24 to 10.13
5.76 to 6.80
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 26.B

TABLE 27

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

HOMICIDE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	585	9.23	2863	9.28	9.28
REGIO[illegible]					
DHR I WESTERN	186	8.58	906	8.57	10.64
DHR II N. CENTRAL	129	9.67	554	8.47	8.64
DHR III S. CENTRAL	149	10.01	790	10.98	9.72
DHR IV EASTERN	121	8.99	613	9.34	8.29
HSA I WESTERN	86	7.97	392	7.39	10.74
HSA II PIEDMONT	106	9.01	463	8.02	8.57
HSA III S. PIEDMONT	100	9.19	514	9.75	10.48
HSA IV CAPITAL	88	9.46	437	9.89	8.92
HSA V CARDINAL	110	11.51	558	11.91	10.56
HSA VI EASTERN	95	8.60	499	9.22	8.01
COUNTIES					
1 ALAMANCE	8	7.74	36	7.08	7.88
2 ALEXANDER	1	3.72	9	6.82	5.29
3 ALLEGHANY	0	0.00	2	4.08	2.88
4 ANSON	2	7.59	22	16.86	16.60
5 ASHE	0	0.00	3	2.58	2.04
6 AVERY	1	6.65	3	4.01	16.08
7 BEAUFORT	3	6.91	23	10.78	10.14
8 BERTIE	2	9.41	8	7.49	4.73
9 BLADEN	3	9.73	16	10.41	6.98
10 BRUNSWICK	4	8.36	19	8.76	8.98
11 BUNCOMBE	14	8.23	58	6.96	9.79
12 BURKE	6	7.89	35	9.35	13.12
13 CABARRUS	7	7.53	29	6.36	9.08
14 CALDWELL	6	8.55	31	8.99	11.95
15 CAMDEN	0	0.00	1	3.44	4.63
16 CARTERET	4	7.93	20	8.48	10.09
17 CASWELL	3	13.33	10	9.11	5.84
18 CATAWBA	7	6.13	37	6.66	10.90
19 CHATHAM	3	8.32	25	14.24	12.87
20 CHEROKEE	1	4.91	8	8.03	7.27
21 CHOWAN	2	14.93	4	6.17	7.03
22 CLAY	0	0.00	2	5.67	4.75
23 CLEVELAND	10	11.59	54	12.73	14.32
24 COLUMBUS	4	7.64	31	11.94	11.27
25 CRAVEN	10	12.46	32	8.31	7.59
26 CUMBERLAND	27	10.59	138	10.88	9.82
27 CURRITUCK	2	14.96	4	6.31	6.84
28 DARE	1	5.34	5	6.05	6.90
29 DAVIDSON	9	7.55	41	7.01	9.26
30 DAVIE	0	0.00	3	2.18	4.48
31 DUPLIN	3	7.19	18	8.67	7.45
32 DURHAM	24	14.47	103	12.85	10.14
33 EDGECOMBE	10	16.92	31	10.72	8.04
34 FORSYTH	26	9.96	126	9.87	9.64
35 FRANKLIN	11	32.18	28	17.42	15.08
36 GASTON	13	7.56	76	8.99	10.98
37 GATES	0	0.00	6	12.92	8.05
38 GRAHAM	1	13.94	4	11.20	9.66
39 GRANVILLE	11	29.18	24	13.20	11.26
40 GREENE	1	6.02	6	7.29	4.16
41 GUILFORD	36	10.91	142	8.74	8.24

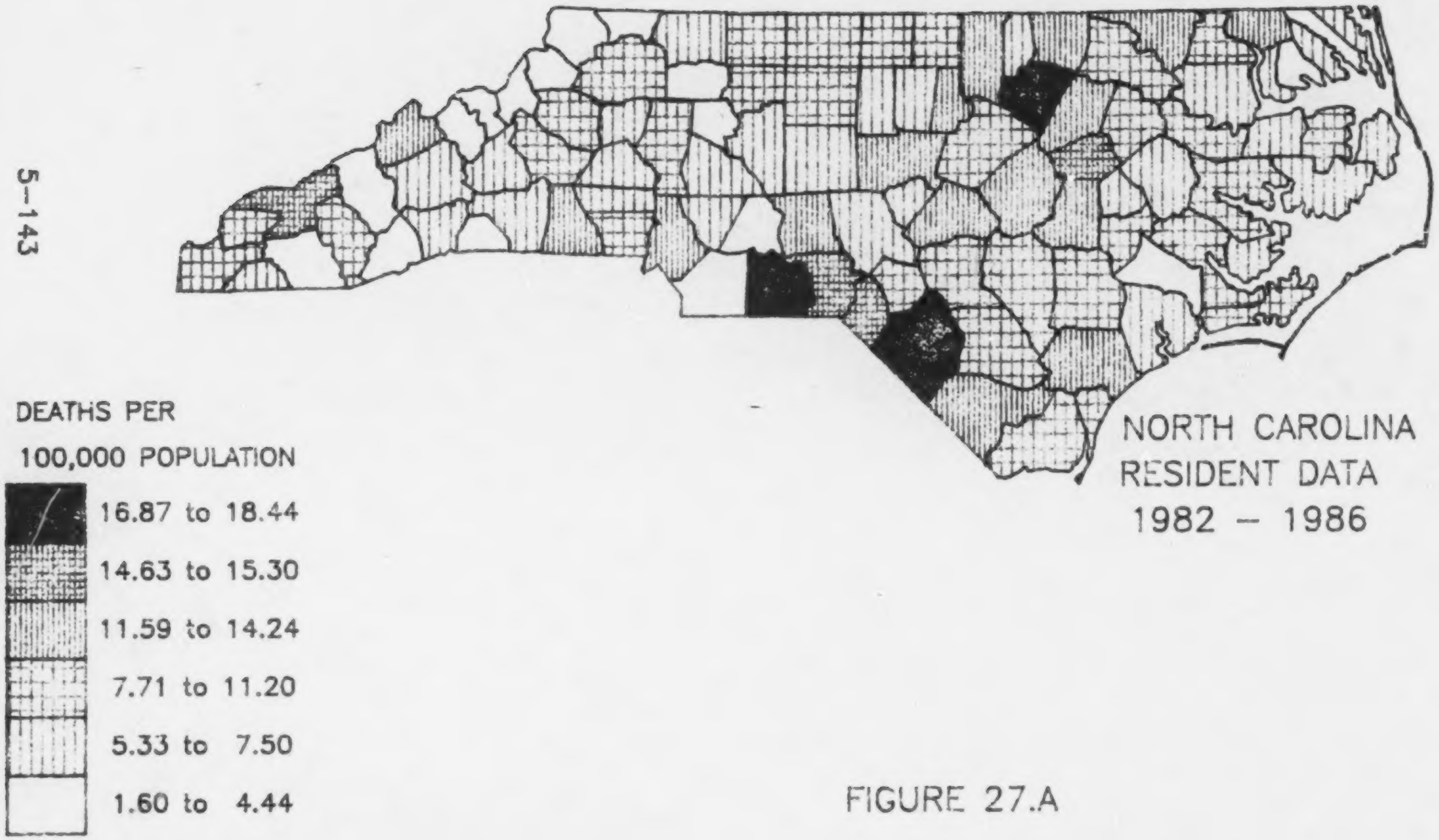
* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
HOMICIDE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	5	8.92	30	10.75	8.40
43 HARNETT	11	17.18	43	13.76	14.37
44 HAYWOOD	2	4.12	10	4.20	7.31
45 HENDERSON	7	10.41	23	7.11	12.78
46 HERTFORD	3	12.47	12	10.06	5.39
47 HOKE	0	0.00	10	8.91	8.41
48 HYDE	0	0.00	2	6.73	5.96
49 IREDELL	10	11.30	44	10.19	11.80
50 JACKSON	2	7.52	12	8.92	10.34
51 JOHNSTON	8	10.23	45	11.98	13.36
52 JONES	0	0.00	2	4.08	4.10
53 LEE	2	4.82	14	7.10	7.63
54 LENOIR	4	6.64	32	10.60	8.84
55 LINCOLN	2	4.32	16	7.17	7.61
56 MCDOWELL	4	11.04	13	7.18	8.13
57 MACON	1	4.33	3	2.65	17.91
58 MADISON	0	0.00	11	12.79	9.68
59 MARTIN	3	11.22	13	9.79	8.48
60 MECKLENBURG	56	12.35	290	13.36	11.77
61 MITCHELL	0	0.00	3	4.16	2.77
62 MONTGOMERY	0	0.00	15	12.77	12.68
63 MOORE	4	7.14	19	7.05	8.05
64 NASH	9	12.63	49	13.96	13.19
65 NEW HANOVER	13	11.33	48	8.68	9.28
66 NORTHAMPTON	0	0.00	13	11.58	10.87
67 ONSLOW	7	5.59	32	5.33	5.63
68 ORANGE	4	4.72	28	6.88	6.58
69 PAMLICO	0	0.00	3	5.54	5.68
70 PASQUOTANK	3	10.04	10	6.88	5.64
71 PENDER	5	19.84	16	13.39	11.44
72 PERQUIMANS	0	0.00	1	1.99	1.64
73 PERSON	0	0.00	14	9.29	8.23
74 PITT	4	4.10	30	6.29	6.00
75 POLK	1	6.90	3	4.23	6.01
76 RANDOLPH	11	11.10	30	6.24	9.32
77 RICHMOND	5	10.81	35	15.30	15.68
78 ROBESON	21	19.79	97	18.44	14.67
79 ROCKINGHAM	7	8.18	37	8.68	9.08
80 ROWAN	5	4.78	34	6.63	7.20
81 RUTHERFORD	7	12.30	21	7.48	8.46
82 SAMPSON	4	7.94	24	9.56	8.53
83 SCOTLAND	7	20.74	25	14.90	12.78
84 STANLY	2	3.97	8	3.22	3.79
85 STOKES	3	8.42	14	7.99	8.88
86 SURRY	3	4.87	19	6.26	8.00
87 SWAIN	0	0.00	8	14.95	14.88
88 TRANSYLVANIA	0	0.00	2	1.59	1.41
89 TYRRELL	0	0.00	2	9.64	9.10
90 UNION	5	6.26	17	4.44	5.75
91 VANCE	1	2.58	14	7.39	6.97
92 WAKE	24	6.55	131	7.71	7.62
93 WARREN	0	0.00	11	13.43	8.56
94 WASHINGTON	2	13.75	5	6.90	3.54
95 WATAUGA	0	0.00	4	2.35	1.96
96 WAYNE	5	5.13	58	11.83	10.02
97 WILKES	13	21.40	30	9.94	12.39
98 WILSON	12	18.58	47	14.63	12.95
99 YADKIN	0	0.00	5	3.40	2.61
100 YANCEY	2	12.62	3	3.88	3.25

* SEE SECTION I

HOMICIDE


DEATHS PER
100,000 POPULATION
16.87 to 18.44
14.63 to 15.30
11.59 to 14.24
7.71 to 11.20
5.33 to 7.50
1.60 to 4.44

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 27.A

HOMICIDE

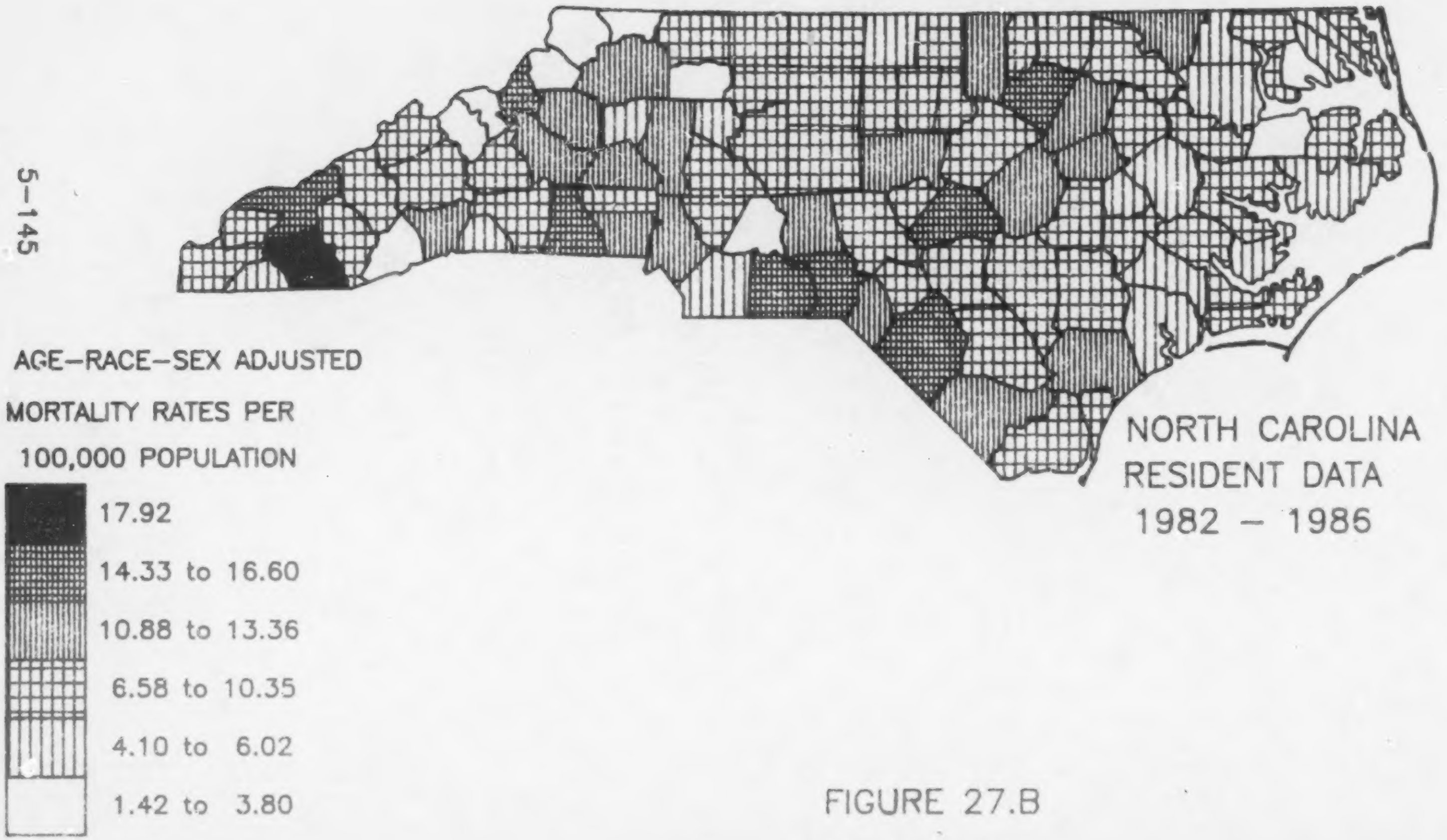

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
17.92
14.33 to 16.60
10.88 to 13.36
6.58 to 10.35
4.10 to 6.02
1.42 to 3.80
NORTH CAROLINA
RESIDENT DATA
1982 - 1986

FIGURE 27.B

TABLE 28

MORTALITY STATISTICS FOR 1986

NORTH CAROLINA RESIDENTS

INFANT DEATHS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
NORTH CAROLINA	1049	11.62	5481	12.58	0.00
REGIONS					
DHR I WESTERN	292	10.18	1546	11.22	0.00
DHR II N. CENTRAL	221	12.62	1073	12.94	0.00
DHR III S. CENTRAL	283	12.34	1483	13.44	0.00
DHR IV EASTERN	253	11.97	1379	13.20	0.00
HSA I WESTERN	114	8.99	692	10.94	0.00
HSA II PIEDMONT	190	12.39	914	12.54	0.00
HSA III S. PIEDMONT	178	11.13	854	11.45	0.00
HSA IV CAPITAL	154	11.61	832	13.77	0.00
HSA V CARDINAL	193	12.76	995	13.15	0.00
HSA VI EASTERN	220	12.32	1194	13.46	0.00
COUNTIES					
1 ALAMANCE	13	9.91	79	12.74	0.00
2 ALEXANDER	5	14.97	19	11.28	0.00
3 ALLEGHANY	0	0.00	3	6.08	0.00
4 ANSON	7	21.67	32	18.20	0.00
5 ASHE	0	0.00	11	9.29	0.00
6 AVERY	1	5.26	5	5.20	0.00
7 BEAUFORT	4	8.11	28	10.15	0.00
8 BERTIE	5	17.12	27	16.77	0.00
9 BLADEN	6	15.83	26	13.62	0.00
10 BRUNSWICK	6	9.10	27	8.84	0.00
11 BUNCOMBE	18	8.54	103	10.18	0.00
12 BURKE	5	5.71	46	10.79	0.00
13 CABARRUS	14	11.05	63	10.42	0.00
14 CALDWELL	8	9.14	41	9.51	0.00
15 CAMDEN	0	0.00	2	5.74	0.00
16 CARTERET	5	7.07	40	11.07	0.00
17 CASWELL	2	8.06	12	9.49	0.00
18 CATAWBA	14	9.96	97	13.86	0.00
19 CHATHAM	4	7.82	30	11.91	0.00
20 CHEROKEE	2	10.05	8	7.23	0.00
21 CHOWAN	3	16.57	15	16.55	0.00
22 CLAY	0	0.00	2	5.14	0.00
23 CLEVELAND	14	12.42	80	14.65	0.00
24 COLUMBUS	7	9.13	59	14.96	0.00
25 CRAVEN	20	12.38	107	13.64	0.00
26 CUMBERLAND	66	12.65	350	13.09	0.00
27 CURRITUCK	3	13.69	18	19.08	0.00
28 DARE	2	6.99	9	7.32	0.00
29 DAVIDSON	15	9.68	82	10.95	0.00
30 DAVIE	3	9.80	15	10.46	0.00
31 DUPLIN	7	12.82	43	15.29	0.00
32 DURHAM	27	10.68	162	14.36	0.00
33 EDGECOMBE	14	16.58	73	16.84	0.00
34 FORSYTH	53	15.27	232	14.00	0.00
35 FRANKLIN	10	22.02	32	15.64	0.00
36 GASTON	36	14.82	159	13.47	0.00
37 GATES	2	14.70	10	15.94	0.00
38 GRAHAM	0	0.00	2	4.37	0.00
39 GRANVILLE	7	13.72	34	15.05	0.00
40 GREENE	3	15.70	17	14.89	0.00
41 GUILFORD	63	13.93	273	12.92	0.00

* SEE SECTION I

MORTALITY STATISTICS FOR 1986, NORTH CAROLINA RESIDENTS
INFANT DEATHS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1986	DEATH RATE* 1986	NUMBER OF DEATHS 1982-86	DEATH RATE* 1982-86	ADJUSTED DEATH RATE+ 1982-86
42 HALIFAX	12	15.30	64	15.09	0.00
43 HARNETT	16	14.62	64	12.46	0.00
44 HAYWOOD	1	1.98	23	9.09	0.00
45 HENDERSON	9	11.92	35	9.30	0.00
46 HERTFORD	3	8.08	20	10.94	0.00
47 HOKE	3	7.91	22	12.65	0.00
48 HYDE	1	14.28	7	18.32	0.00
49 IREDELL	17	14.45	57	10.40	0.00
50 JACKSON	5	18.51	22	15.55	0.00
51 JOHNSTON	7	6.59	52	10.35	0.00
52 JONES	3	27.02	12	18.20	0.00
53 LEE	3	5.15	43	14.28	0.00
54 LENOIR	8	10.11	61	15.38	0.00
55 LINCOLN	4	6.35	34	11.64	0.00
56 MCDOWELL	8	18.69	32	14.69	0.00
57 MACON	3	12.65	13	10.89	0.00
58 MADISON	1	5.61	10	10.90	0.00
59 MARTIN	6	16.39	26	14.20	0.00
60 MECKLENBURG	77	10.58	387	11.68	0.00
61 MITCHELL	0	0.00	7	7.36	0.00
62 MONTGOMERY	1	3.49	24	15.50	0.00
63 MOORE	11	15.98	38	10.84	0.00
64 NASH	15	13.94	95	18.29	0.00
65 NEW HANOVER	16	10.52	77	10.72	0.00
66 NORTHAMPTON	1	3.23	13	8.27	0.00
67 ONSLOW	44	13.06	200	12.32	0.00
68 ORANGE	12	11.81	54	11.40	0.00
69 PAMLICO	2	13.60	11	16.36	0.00
70 PASQUOTANK	8	17.31	28	12.21	0.00
71 PENDER	4	11.59	22	13.84	0.00
72 PERQUIMANS	1	6.41	5	7.16	0.00
73 PERSON	3	7.63	21	11.75	0.00
74 PITT	22	15.35	96	13.86	0.00
75 POLK	2	18.01	8	12.57	0.00
76 RANDOLPH	12	8.72	61	9.88	0.00
77 RICHMOND	8	14.05	47	16.13	0.00
78 ROBESON	27	15.21	126	14.10	0.00
79 ROCKINGHAM	12	11.01	65	12.02	0.00
80 ROWAN	13	9.07	64	9.69	0.00
81 RUTHERFORD	2	2.72	37	10.43	0.00
82 SAMPSON	7	10.86	42	13.13	0.00
83 SCOTLAND	8	16.77	39	15.42	0.00
84 STANLY	3	4.65	22	7.02	0.00
85 STOKES	3	6.86	25	11.93	0.00
86 SURRY	10	14.08	55	15.57	0.00
87 SWAIN	1	6.13	14	16.43	0.00
88 TRANSYLVANIA	2	7.75	16	11.08	0.00
89 TYRRELL	0	0.00	3	9.96	0.00
90 UNION	14	12.24	68	12.45	0.00
91 VANCE	7	11.88	49	17.43	0.00
92 WAKE	70	12.98	332	13.94	0.00
93 WARREN	4	17.31	23	20.44	0.00
94 WASHINGTON	5	23.14	19	17.11	0.00
95 WATAUGA	3	7.35	12	6.28	0.00
96 WAYNE	15	9.38	95	11.81	0.00
97 WILKES	7	9.69	38	10.46	0.00
98 WILSON	6	6.52	50	10.91	0.00
99 YADKIN	4	12.61	15	9.37	0.00
100 YANCEY	3	17.96	8	9.31	0.00

* SEE SECTION I

INFANT DEATH RATES

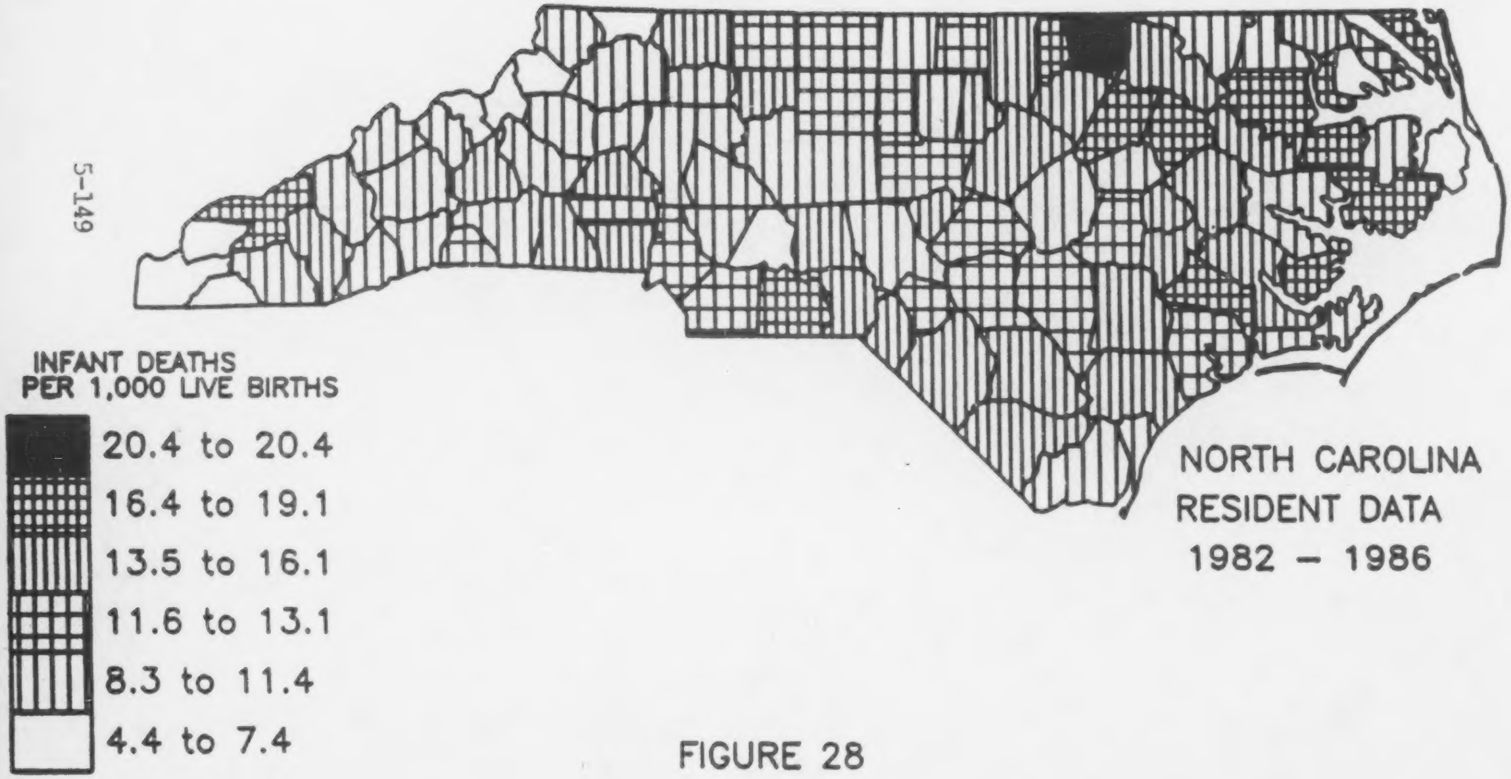

INFANT DEATHS
PER 1,000 LIVE BIRTHS
■ 20.4 to 20.4
▦ 16.4 to 19.1
▥ 13.5 to 16.1
▦ 11.6 to 13.1
▥ 8.3 to 11.4
□ 4.4 to 7.4
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 28

VI. TABLES AND FIGURES: MULTIPLE CONDITIONS PRESENT AT DEATH 1982-86

TABLE 29

DEATHS BY SELECTED UNDERLYING CAUSE WITH FREQUENCY OF MENTIONED CONDITIONS, NORTH CAROLINA RESIDENTS, 1986

	Underlying Cause of Death	Total Under-lying*	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)											
			1	2	3	4	5	6	7	8	9	10	11	12
1	Diseases of heart	19377	19376	7660	8602	2456	1882	8367	798	14	102	18	158	65
2	Acute myocardial infarction	7612	7612	7612	2893	891	451	2893	259	4	30	5	44	23
3	Other forms of ischemic heart disease	5626	5626	0	5626	533	529	3342	241	6	34	7	47	19
4	Hypertension with or without renal disease	268	122	0	0	266	24	68	8	0	2	0	1	0
5	Cerebrovascular disease	4484	1500	67	327	678	4484	1500	163	4	10	2	30	20
6	Atherosclerosis	560	361	0	0	0	0	560	26	0	6	0	3	3
7	Cancer	11584	2874	66	393	255	295	481	11584	331	1308	609	3234	1061
8	Stomach	328	86	2	10	7	4	17	328	328	2	1	1	1
9	Colon, rectum, rectosigmoid junction & anus	1283	308	3	43	26	20	60	1283	0	1283	0	8	4
10	Pancreas	606	159	6	26	17	12	29	606	1	1	606	1	2
11	Trachea, bronchus and lung	3206	758	23	119	70	63	141	3206	1	7	0	3206	8
12	Female breast	1037	196	0	18	23	22	28	1037	0	5	0	1	1037
13	Cervix uteri	137	41	1	2	5	3	2	137	0	0	0	0	1
14	Ovary & other uterine adnexa	281	68	1	4	2	3	4	281	0	1	0	0	0
15	Prostate	766	226	7	34	21	35	42	766	0	3	0	3	0
16	Leukemia	423	128	4	18	2	36	13	423	0	0	0	1	3
17	Diabetes Mellitus	947	658	179	222	180	217	311	30	0	2	1	2	5
18	Pneumonia & Influenza	1800	707	29	131	57	256	246	128	2	19	1	23	10
19	Chronic obstructive pulmonary disease & allied conditions	1825	878	52	166	63	71	190	132	2	10	4	57	5
20	Chronic liver disease and cirrhosis	632	153	3	13	9	5	19	20	0	0	1	3	1
21	Nephritis, nephrotic syndrome & nephrosis	543	331	23	60	12	48	80	32	0	3	2	3	2
22	Motor vehicle accidents	1700	86	8	8	8	13	12	7	0	3	0	1	0
23	All other accidents & adverse effects	1477	336	23	49	30	41	60	36	1	3	2	2	4
24	Suicide	771	26	1	5	1	6	6	17	0	4	0	3	1
25	Homicide	585	24	1	3	0	0	2	0	0	0	0	0	0
	TOTAL DEATHS**	54584	30403	8307	10365	4303	7858	12561	13312	368	1504	649	3567	1210

TABLE 29 — Continued

DEATHS BY SELECTED UNDERLYING CAUSE WITH FREQUENCY OF MENTIONED CONDITIONS, NORTH CAROLINA RESIDENTS, 1986

	Underlying Cause of Death	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)													
		13	14	15	16	17	18	19	20	21	22	23	24	25	Alcohol
1	Diseases of heart	10	12	154	35	1970	785	1308	117	748	9	492	0	2	219
2	Acute myocardial infarction	4	5	55	12	832	147	438	19	189	1	107	0	0	52
3	Other forms of ischemic heart disease	3	4	43	11	611	238	424	27	236	3	152	0	1	81
4	Hypertension with or without renal disease	1	0	3	0	35	9	9	1	13	1	5	0	0	2
5	Cerebrovascular disease	2	1	40	7	372	416	146	9	132	2	180	0	0	17
6	Atherosclerosis	0	0	5	0	30	32	37	2	61	1	29	0	0	4
7	Cancer	145	283	798	442	364	658	600	48	383	0	260	0	0	38
8	Stomach	1	0	0	1	9	16	11	5	5	0	9	0	0	1
9	Colon, rectum, rectosigmoid junction & anus	3	2	4	0	28	35	22	4	46	0	35	0	0	1
10	Pancreas	0	0	4	0	40	20	16	1	11	0	6	0	0	1
11	Trachea, bronchus and lung	1	0	14	3	84	243	377	8	35	0	59	0	0	16
12	Female breast	0	0	0	1	39	29	16	0	13	0	16	0	0	0
13	Cervix uteri	137	0	0	0	4	2	1	0	19	0	4	0	0	0
14	Ovary & other uterine adnexa	0	281	0	0	7	7	0	1	9	0	4	0	0	0
15	Prostate	0	0	766	2	26	60	25	2	69	0	13	0	0	0
16	Leukemia	0	0	1	423	9	41	9	3	26	0	13	0	0	0
17	Diabetes Mellitus	0	3	6	0	947	43	17	9	139	0	27	0	0	8
18	Pneumonia & Influenza	0	1	19	15	78	1800	129	26	103	1	32	0	0	38
19	Chronic obstructive pulmonary disease & allied conditions	0	0	19	4	55	301	1825	14	45	0	50	0	0	23
20	Chronic liver disease and cirrhosis	2	0	2	0	27	31	27	625	56	0	14	0	0	306
21	Nephritis, nephrotic syndrome & nephrosis	1	3	0	3	44	49	21	5	543	0	18	0	0	4
22	Motor vehicle accidents	0	0	0	0	5	2	7	3	10	1700	11	0	0	134
23	All other accidents & adverse effects	0	0	7	4	34	29	45	13	43	1	1477	0	0	202
24	Suicide	0	0	1	1	3	0	9	1	3	0	2	771	0	47
25	Homicide	0	0	0	0	1	3	1	1	2	0	6	0	585	28
	TOTAL DEATHS**	165	307	1085	532	4302	4785	4520	966	2930	1718	3279	773	588	1473

*Numbers shown here are the final underlying frequencies. They are sometimes larger than numbers shown on the diagonal due to the fact that a sequence of conditions may imply an underlying cause that is not specifically mentioned on the death certificate.

**Differences between these totals and the summation over causes are attributable to causes not given in the table.

Note: In this table, a death is counted only once in a condition category although several conditions within the category may have been reported or a single condition may have been recorded more than once on the death certificate.

TABLE 30

NUMBER OF DEATHS WITH SELECTED PAIRS OF CONDITIONS MENTIONED TOGETHER, NORTH CAROLINA RESIDENTS, 1986

	Conditions Mentioned on Death Certificate	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Diseases of heart	30403	8307	10365	3407	3980	11073	4035	113	454	189	985	302
2	Acute myocardial infarction	8307	8307	3022	952	562	3068	348	6	35	11	72	25
3	Other forms of ischemic heart disease	10365	3022	10365	1015	1163	6356	780	20	95	35	199	50
4	Hypertension with or without renal disease	3407	952	1015	4303	1227	1269	372	10	38	18	85	46
5	Cerebrovascular disease	3980	562	1163	1227	7858	2973	557	11	39	15	110	53
6	Atherosclerosis	11073	3068	6356	1269	2973	12561	973	27	128	38	226	77
7	Cancer	4035	348	780	372	557	973	13312	368	1504	649	3567	1210
8	Stomach	113	6	20	10	11	27	368	368	3	2	3	1
9	Colon, rectum, rectosigmoid junction & anus	454	35	95	38	39	128	1504	3	1504	1	17	11
10	Pancreas	189	11	35	18	15	38	649	2	1	649	1	3
11	Trachea, bronchus and lung	985	72	199	85	110	226	3567	3	17	1	3567	9
12	Female breast	302	25	50	46	53	77	1210	1	11	3	9	1210
13	Cervix uteri	61	5	7	9	6	6	165	2	3	0	2	4
14	Ovary & other uterine adnexa	88	7	11	4	7	13	307	0	3	0	0	0
15	Prostate	447	65	112	49	105	143	1085	0	10	4	19	0
16	Leukemia	193	16	38	8	49	34	532	1	1	0	6	4
17	Diabetes Mellitus	3277	1053	1392	982	921	1630	488	10	39	42	99	58
18	Pneumonia & Influenza	2230	199	564	221	931	949	905	21	64	23	299	51
19	Chronic obstructive pulmonary disease & allied conditions	2825	527	947	312	360	1122	850	15	36	21	479	25
20	Chronic liver disease and cirrhosis	340	26	58	26	20	68	78	5	7	2	11	3
21	Nephritis, nephrotic syndrome & nephrosis	1751	251	468	67	342	618	492	8	59	15	47	18
22	Motor vehicle accidents	95	9	11	12	16	15	7	0	3	0	1	0
23	All other accidents & adverse effects	1312	162	338	121	337	438	358	13	41	8	71	27
24	Suicide	26	1	5	1	6	6	17	0	4	0	3	1
25	Homicide	26	1	4	0	0	3	0	0	0	0	0	0
26	Alcohol-related conditions	466	65	120	76	40	95	59	3	3	2	20	0
	TOTAL DEATHS*	30403	8307	10365	4303	7858	12561	13312	368	1504	649	3567	1210

TABLE 30 — Continued

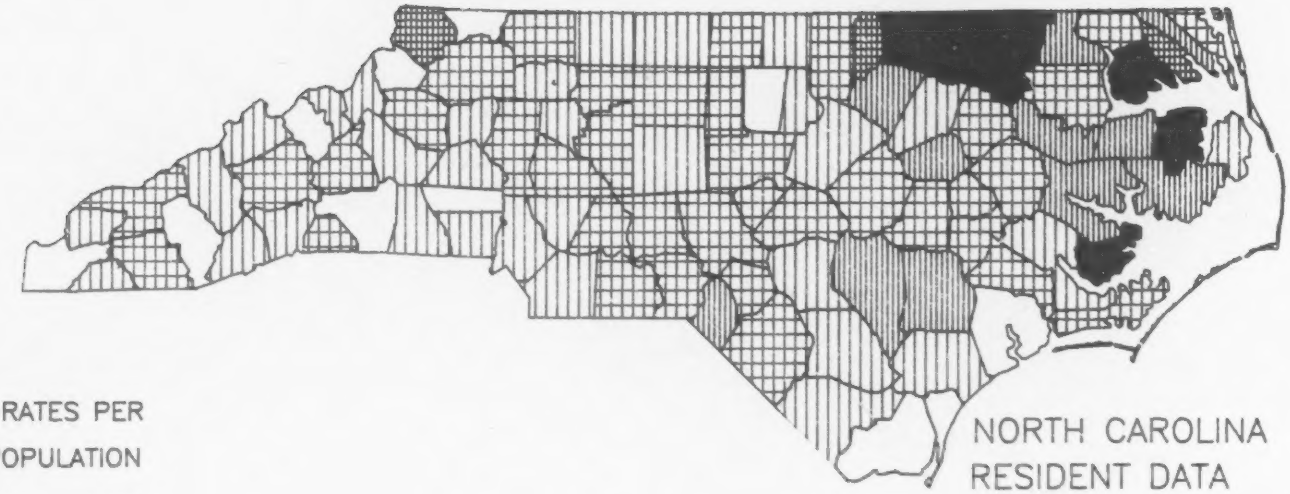
NUMBER OF DEATHS WITH SELECTED PAIRS OF CONDITIONS MENTIONED TOGETHER, NORTH CAROLINA RESIDENTS, 1986

	Conditions Mentioned on Death Certificate	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)													
		13	14	15	16	17	18	19	20	21	22	23	24	25	Alcohol
1	Diseases of heart	61	88	447	193	3277	2230	2825	340	1751	95	1312	26	26	466
2	Acute myocardial infarction	5	7	65	16	1053	199	527	26	251	9	162	1	1	65
3	Other forms of ischemic heart disease	7	11	112	38	1392	564	947	58	468	11	338	5	4	120
4	Hypertension with or without renal disease	9	4	49	8	982	221	312	26	67	12	121	1	0	76
5	Cerebrovascular disease	6	7	105	49	921	931	360	20	342	16	337	6	0	40
6	Atherosclerosis	6	13	143	34	1630	949	1122	68	618	15	438	6	3	95
7	Cancer	165	307	1085	532	488	905	850	78	492	7	358	17	0	59
8	Stomach	2	0	0	1	10	21	15	5	8	0	13	0	0	3
9	Colon, rectum, rectosigmoid junction & anus	3	3	10	1	39	64	36	7	59	3	41	4	0	3
10	Pancreas	0	0	4	0	42	23	21	2	15	0	8	0	0	2
11	Trachea, bronchus and lung	2	0	19	6	99	299	479	11	47	1	71	3	0	20
12	Female breast	4	0	0	4	58	51	25	3	18	0	27	1	0	0
13	Cervix uteri	165	0	0	0	6	3	2	2	23	0	5	0	0	1
14	Ovary & other uterine adnexa	0	307	0	0	12	8	0	1	12	0	4	0	0	0
15	Prostate	0	0	1085	4	49	105	78	7	92	0	32	1	0	3
16	Leukemia	0	0	4	532	17	69	20	4	35	0	20	1	0	0
17	Diabetes Mellitus	6	12	49	17	4302	280	237	60	393	7	151	3	1	44
18	Pneumonia & Influenza	-3	8	105	69	280	4785	629	74	331	4	180	0	3	83
19	Chronic obstructive pulmonary disease & allied conditions	2	0	78	20	237	629	4520	73	159	9	169	9	1	101
20	Chronic liver disease and cirrhosis	2	1	7	4	60	74	73	966	78	3	41	1	1	411
21	Nephritis, nephrotic syndrome & nephrosis	23	12	92	35	393	331	159	78	2930	11	156	3	2	54
22	Motor vehicle accidents	0	0	0	0	7	4	9	3	11	1718	12	0	0	136
23	All other accidents & adverse effects	5	4	32	20	151	180	169	41	156	12	3279	2	7	259
24	Suicide	0	0	1	1	3	0	9	1	3	0	2	773	0	48
25	Homicide	0	0	0	0	1	3	1	1	2	0	7	0	588	28
26	Alcohol-related conditions	1	0	3	0	44	83	101	411	54	136	259	48	28	1473
	TOTAL DEATHS*	165	307	1085	532	4302	4785	4520	966	2930	1718	3279	773	588	1473

*Differences between these totals and the summation over causes are attributable to causes not given in the table and to multiple counting of a condition if it appears in combination with more than one other condition on a certificate.

Note: In this table, a death is counted only once in a condition category although several conditions within the category may have been reported or a single condition may have been recorded more than once on the death certificate. Also, the ICD-9 codes used to count hypertension and atherosclerosis mentions are different from the codes used to count underlying cause elsewhere in this report. For further explanation, see *Multiple Conditions Present at Death: A Special Study*, SCHS, 1982.

CONDITIONS MENTIONED – HYPERTENSION


MORTALITY RATES PER
100,000 POPULATION
■ 130.19 to 148.01
▦ 117.32 to 122.47
▥ 96.47 to 111.89
▦ 65.70 to 92.12
▥ 48.92 to 63.02
□ 28.89 to 47.39

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 29.A

CONDITIONS MENTIONED – HYPERTENSION

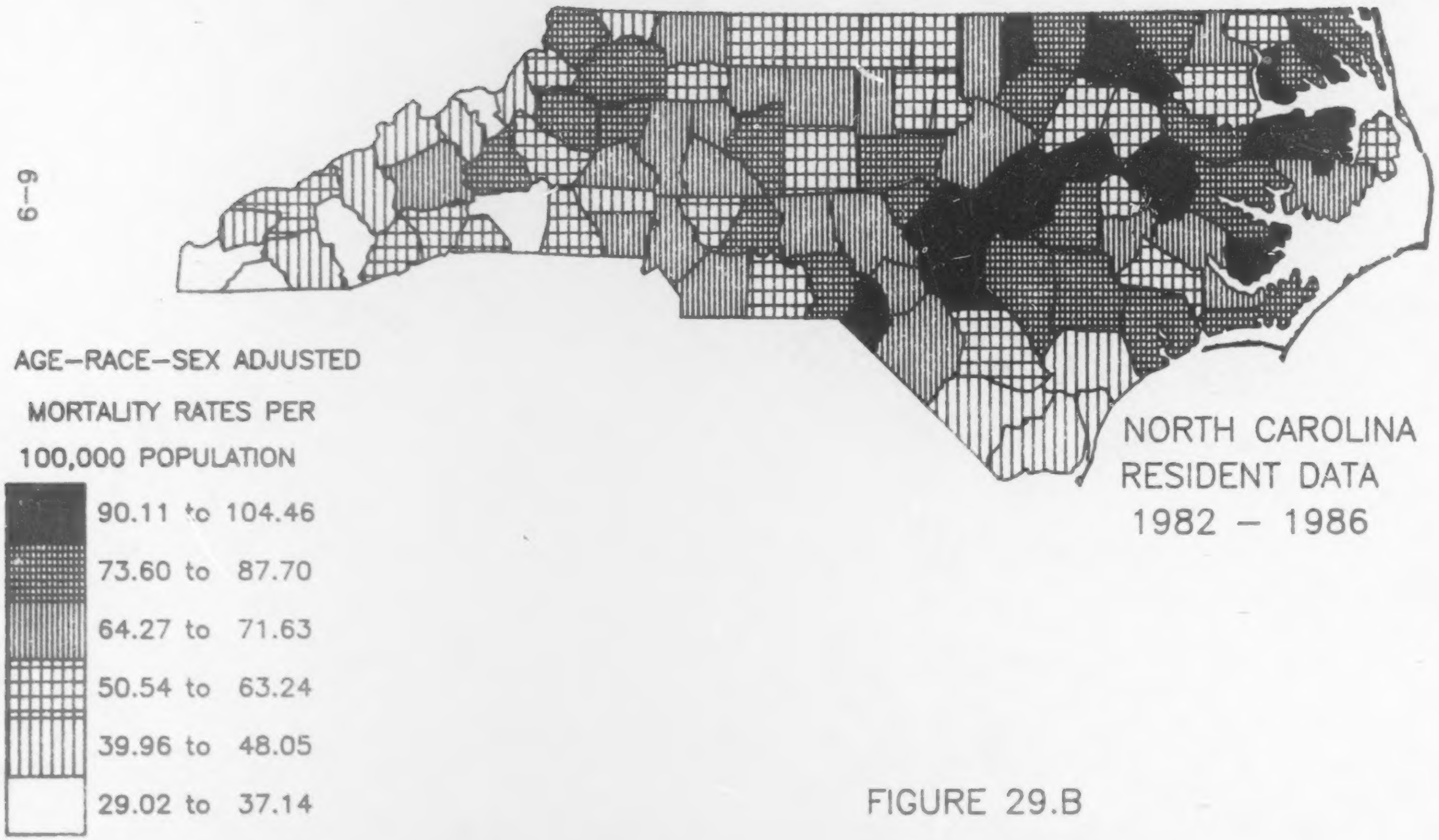

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
90.11 to 104.46
73.60 to 87.70
64.27 to 71.63
50.54 to 63.24
39.96 to 48.05
29.02 to 37.14
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 29.B

CONDITIONS MENTIONED – ATHEROSCLEROSIS

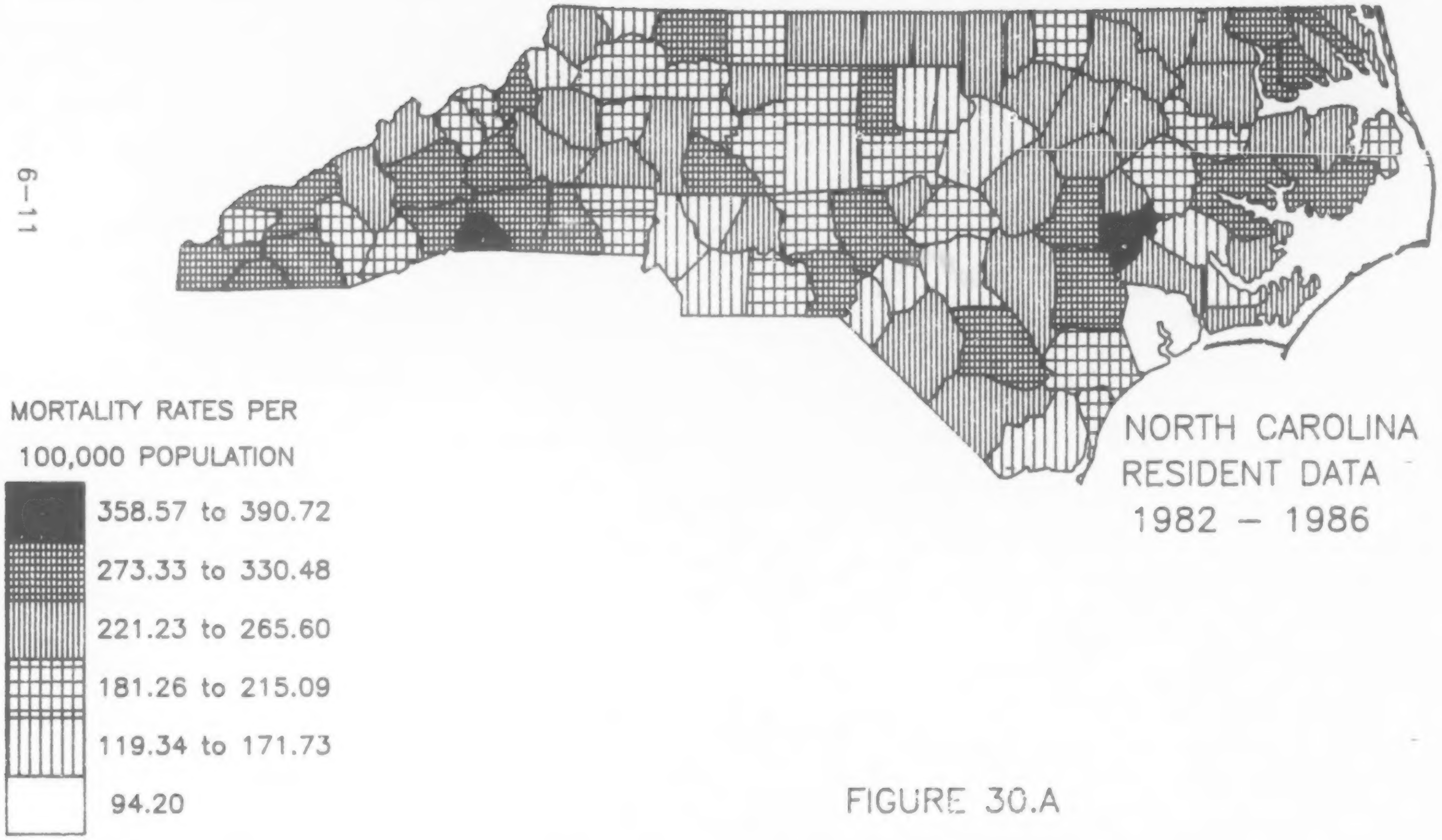
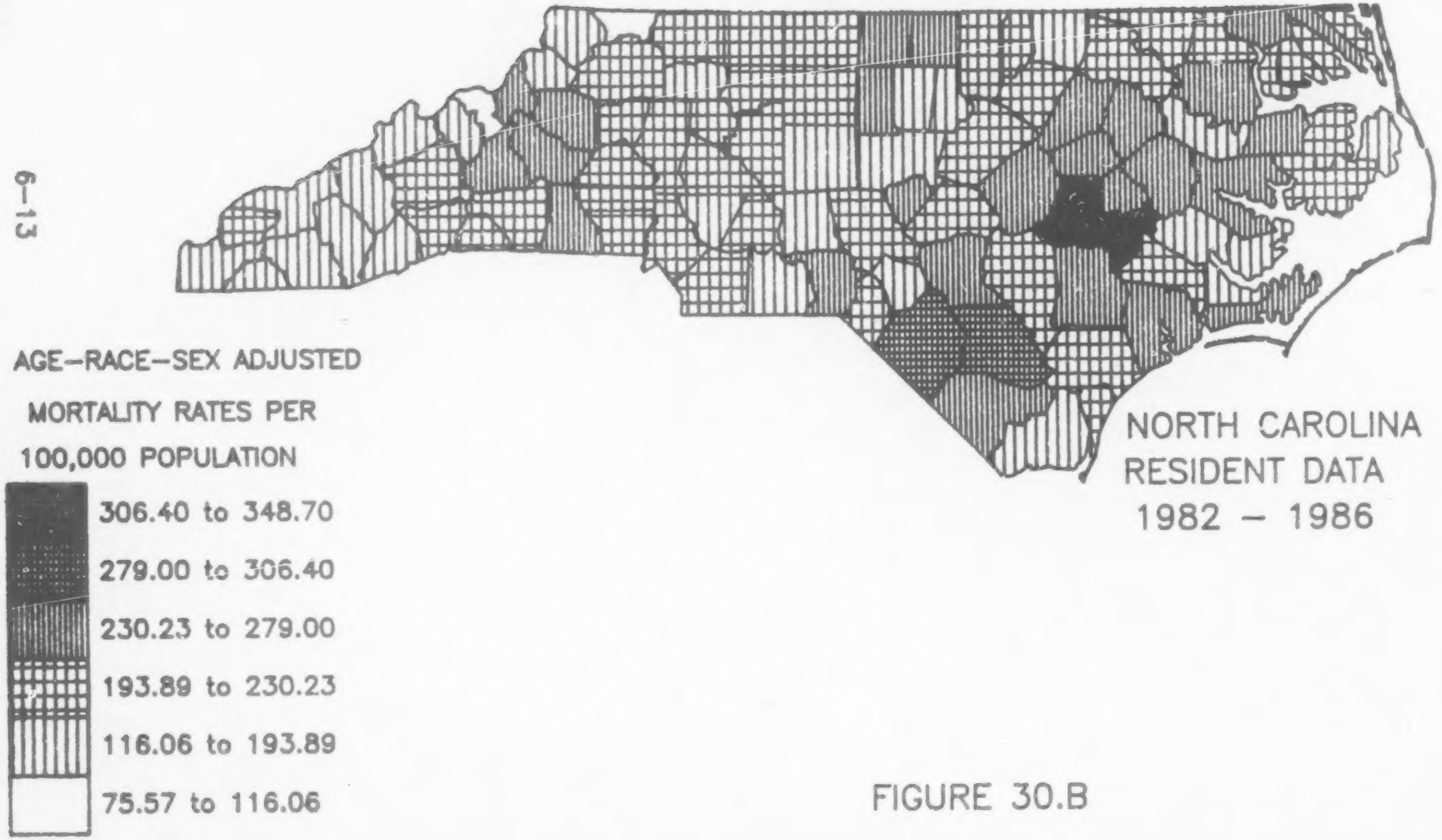

MORTALITY RATES PER
100,000 POPULATION
358.57 to 390.72
273.33 to 330.48
221.23 to 265.60
181.26 to 215.09
119.34 to 171.73
94.20
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 30.A

CONDITIONS MENTIONED – ATHEROSCLEROSIS


AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
306.40 to 348.70
279.00 to 306.40
230.23 to 279.00
193.89 to 230.23
116.06 to 193.89
75.57 to 116.06

NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 30.B

CONDITIONS MENTIONED – DIABETES

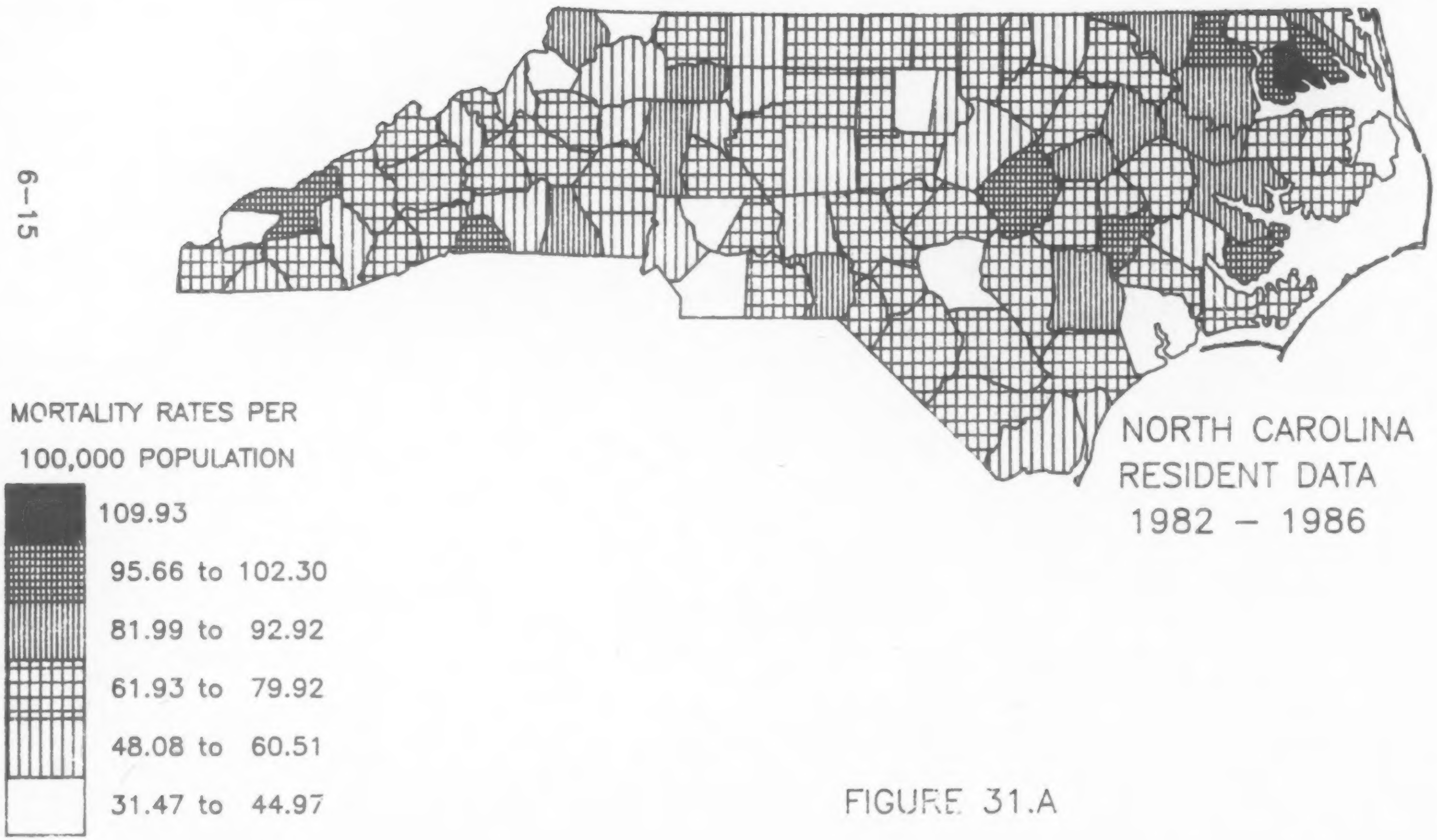

NORTH CAROLINA
RESIDENT DATA
1982 – 1986
MORTALITY RATES PER
100,000 POPULATION
109.93
95.66 to 102.30
81.99 to 92.92
61.93 to 79.92
48.08 to 60.51
31.47 to 44.97

FIGURE 31.A

CONDITIONS MENTIONED – DIABETES

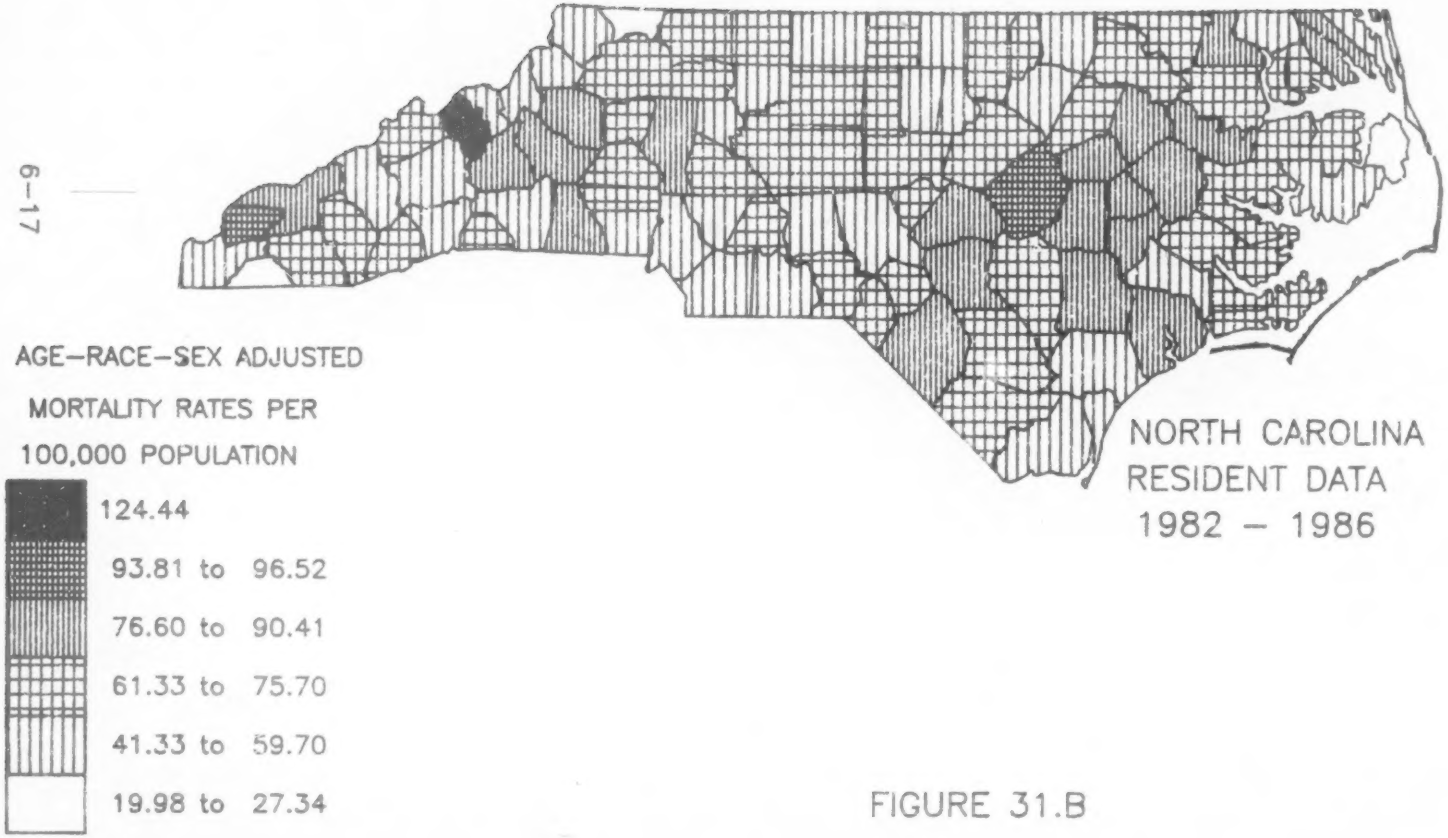

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION
124.44
93.81 to 96.52
76.60 to 90.41
61.33 to 75.70
41.33 to 59.70
19.98 to 27.34
NORTH CAROLINA
RESIDENT DATA
1982 – 1986

FIGURE 31.B

REFERENCES

1. SAS Institute Inc. *SAS User's Guide: Statistics, 1982 Edition*, Cluster Procedure. Cary, N.C., 1982.

2. Kleinman, J.C. "Infant Mortality," *Statistical Notes for Health Planners*. Number 2, National Center for Health Statistics, Rockville, Maryland, July 1976.

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